



Columbia University
in the City of New York

CATALOGUE

1913-1914

1913/14

C

Columbia University
in the City of New York

College of Physicians and Surgeons



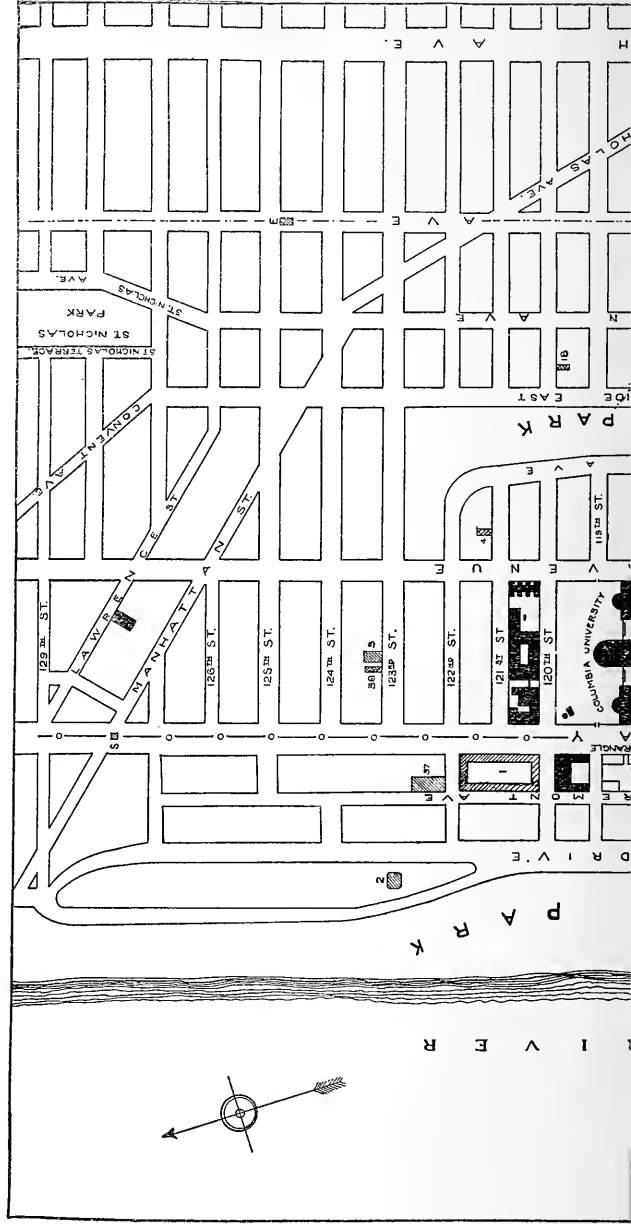
Library

Digitized by the Internet Archive
in 2010 with funding from
Open Knowledge Commons

1. Union Theological Seminary
2. Grant's Mausoleum
3. Jewish Theological Seminary
4. Phi Sigma Delta
5. Zeta Psi
6. Beta Theta Pi
7. Delta Psi
8. Delta Phi
9. Psi Upsilon
10. Alpha Chi Rho
11. Phi Gamma Delta
12. St. Luke's Home
13. Phi Sigma Kappa

14. Theta Delta Chi
15. Corn Exchange Bank (University Branch)
16. Phi Delta Theta
17. Sigma Alpha Epsilon
18. Sigma Chi
19. St. Luke's Hospital
20. Theta Xi
21. Delta Tau Delta
22. Alpha Delta Phi
23. Delta Kappa Epsilon
24. Delta Upsilon
25. Phi Kappa Sigma
26. Sigma Nu

27. Home for Old Men and Aged Couples
28. Zeta Beta Tau
29. National Academy of Design
30. Woman's Hospital
31. Phi Kappa Psi
32. Public School No. 165
33. Home for the Aged of the Little Sisters of the Poor
34. Home for the Aged and Infirm Hebrews
35. General Memorial Hospital
36. Wadleigh High School
37. Alpha Sigma Phi
38. Epsilon Psi Epsilon







Columbia University
in the City of New York

CATALOGUE

1913-1914

Spec-Cell
M-Cell
Serial
C
1913/1914

FORM OF BEQUEST

To the Trustees of Columbia University in the City of New York I
give and bequeath the sum of \$ _____, to be used by said
Trustees for the uses and purposes of said Corporation.

CONTENTS

	PAGE
TRUSTEES	I
Standing Committees	I
TRUSTEES OF OTHER CORPORATIONS	2
UNIVERSITY COUNCIL	4
OFFICERS OF ADMINISTRATION	5
EMERITUS OFFICERS	6
ADMINISTRATIVE BOARD OF THE SUMMER SESSION	7
ADMINISTRATIVE BOARD OF EXTENSION TEACHING	7
ADMINISTRATIVE BOARD OF INSTRUCTION AND RESEARCH IN AGRICULTURE	7
ADMINISTRATIVE BOARD OF THE SCHOOL OF JOURNALISM	7
BOARD OF MANAGERS, VANDERBILT CLINIC.	7
BOARD OF MANAGERS, SLOANE HOSPITAL, FOR WOMEN	7
BOARD OF MANAGERS, GEORGE CROCKER SPECIAL RESEARCH FUND	8
ADVISORY COMMITTEE ON ART	8
UNIVERSITY COMMITTEE ON STUDENT ORGANIZATIONS	8
MEMBERS OF FACULTIES AND TEACHING STAFF	9
GENERAL STATEMENT	41
Historical	41
Organization	42
Schools and Colleges	42
Departments and Divisions	45
Announcements	45
GENERAL REGULATIONS	46
Status of Students	46
Registration	46
Withdrawal	47
Fees	47
Laboratory and Special Summer Surveying, Mining and Geology fees	50
Deposits	51
STUDENTS' EXPENSES	51
EMPLOYMENT FOR STUDENTS	51
APPOINTMENT COMMITTEES	52
RELATIONS BETWEEN THE UNIVERSITY AND OTHER INSTITUTIONS	52
THE LIBRARY	54
BOOK-STORE	56
UNIVERSITY COMMONS	56

	PAGE
RESIDENCE HALLS	56
OTHER LIVING ACCOMMODATIONS	57
PUBLIC WORSHIP AND RELIGIOUS WORK	57
EARL HALL	58
MEDICAL ATTENDANCE	58
STUDENT ORGANIZATIONS	58
GREEK-LETTER FRATERNITIES	59
DIVISIONAL AND DEPARTMENTAL STATEMENTS	60
Introductory	60
Agriculture	61
Anatomy	62
Anthropology	63
Architecture	64
Astronomy	66
Bacteriology	67
Biological Chemistry	68
Biology	71
Botany	71
Chemistry	75
Civil Engineering	80
Classical Philology	83
Clinical Instruction, Courses in Dermatology, Genito- Urinary Diseases, Laryngology, Ophthalmology, Ortho- pedic Surgery, and Otology	88
Design	89
Diseases of Children	89
Drafting	90
Economics and Social Science	91
Education	95
Electrical Engineering	102
English and Comparative Literature	104
Fine Arts	109
Geography	109
Geology	110
Germanic Languages and Literatures	112
Gynecology	117
History	118
Household Arts	124
Hygiene and Preventive Medicine	124
Industrial Arts	124
Law	125
Private Law	125
Public Law and Comparative Jurisprudence	126

CONTENTS

V

PAGE

DEPARTMENTS OF INSTRUCTION—*Continued*

Manual Training	128
Mathematics	129
Mechanical Engineering	132
Metallurgy	133
Mineralogy	135
Mining	136
Music	139
Nature Study	140
Neurology	140
Obstetrics	141
Oriental Languages	141
Chinese	141
Indo-Iranian Languages	141
Semitic Languages	143
Pathology	145
Pharmacy	146
Philosophy and Psychology	147
Physical Education	152
Physics	154
Physiology	157
Practice of Medicine	159
Religion	162
Romance Languages and Literatures	162
Shopwork	167
Surgery	167
Therapeutics	169
Zoölogy	170
ENTRANCE REQUIREMENTS	173
Undergraduates	173
General Statement	173
Examinations	173
Application for Examination	174
Examination Fee	174
Restrictions Governing Credits for Examinations	175
Examination Subjects	176
Schedule of Examinations	178
Submission of Note-Books, Drawings, etc.	179
Definitions of the Requirements	179
REGULATIONS FOR THE UNIVERSITY DEGREES	186
Master of Arts and Doctor of Philosophy	186
Master of Laws	192
COLUMBIA COLLEGE	193

	PAGE
COLUMBIA COLLEGE— <i>Continued</i>	
The Faculty	193
Admission	193
Advanced Standing	193
To Special Courses	193
Program of Studies	194
General Regulations	194
Degree of A.B. or B.S. with Honors	194
Degree of A.B. or B.S.	196
Options in the Professional Schools	196
Miscellaneous	197
Register of Students	199
SCHOOL OF LAW	216
The Faculty	216
Purposes of the School	216
Requirements for Admission	216
To Advanced Standing	216
Non-Matriculated Students	217
Examinations	217
Curriculum	219
Register of Students	220
SCHOOL OF MEDICINE (College of Physicians and Surgeons)	230
The Faculty	230
Historical Statement	230
Buildings, Grounds, and Equipment	231
Vanderbilt Clinic	232
Sloane Hospital	233
Clinics at Hospitals	233
General Plan of Instruction	233
Clinical Clerkships	235
Requirements for Admission	235
Advanced Standing	235
As Special Students	236
Requirements of Graduation	237
Course of Study	238
Register of Students	240
SCHOOLS OF MINES, ENGINEERING, AND CHEMISTRY	247
The Faculty	247
Courses	247
Admission	248
Advanced Standing	248
Special Courses	249
New Requirements for Admission	249

CONTENTS

VII

PAGE

SCHOOLS OF MINES, ENGINEERING AND CHEMISTRY—*Continued*

Fellowships and Scholarships	249
Rules Governing Students	249
Admission on Probation	251
Equipment and Collections	252
Courses of Study	252
Uniform Curriculum for the First Year	252
Engineer of Mines	253
Metallurgical Engineering	254
Civil Engineering	256
Sanitary Engineering	257
Electrical Engineering	258
Mechanical Engineering	259
Chemical Engineering	260
Chemistry	261
Register of Students	263
FACULTY OF POLITICAL SCIENCE	278
The Faculty	278
General Statement	278
Courses of Instruction	278
FACULTY OF PHILOSOPHY	279
The Faculty	279
General Statement	279
Courses of Instruction	279
FACULTY OF PURE SCIENCE	280
The Faculty	280
General Statement	280
Courses of Instruction	280
REGISTER OF STUDENTS UNDER THE FACULTIES OF POLITICAL SCIENCE, PHILOSOPHY AND PURE SCIENCE	282
FACULTY OF FINE ARTS	321
Faculty	321
General Statement	321
Admission	322
Advanced Standing	322
Non-matriculated Students	322
School of Architecture	323
General Statement	323
Building and Equipment	323
Admission	324
Candidacy for the Degree	324
The Combined Course	324
Students from Other Institutions	324

	PAGE
FACULTY OF FINE ARTS (School of Architecture)— <i>Continued</i>	
Program of Studies	324
Bachelor of Architecture and the Professional Certificate	324
Schedule of Prescribed Courses	324
Elective Courses	325
Graduate Courses	325
School of Music	326
General Statement	326
Equipment	326
Admission	327
Degree of Master of Arts	327
Degree of Bachelor of Music	327
Program of Studies	327
Register of Students	328
School of Architecture	328
School of Music	331
SCHOOL OF JOURNALISM	332
Advisory Board	332
Aims of the School	332
Building and Equipment	332
Requirements for Admission	332
Advanced Standing	333
Non-matriculated Students	333
Foreign Language Test	333
Program of Study	334
Stenography and Typewriting	335
Admission of Women	335
Register of Students	336
BARNARD COLLEGE	339
Faculty	339
Standing Committees	339
General Statement	339
Admission	340
On Probation	340
Advanced Standing	341
Special Students	341
Matriculation, Registration, Fees	342
Program of Studies	342
Courses in Graduate Faculties and Professional Schools	343
Register of Students	345
TEACHERS COLLEGE	359
Faculty of Education	359
Faculty of Practical Arts	359
General Statement	359

CONTENTS

IX

PAGE

TEACHERS COLLEGE—*Continued*

School of Education	360
School of Practical Arts	361
Register of Students	364
COLLEGE OF PHARMACY	396
Officers of Administration	396
Officers of Instruction	396
General Statement	396
Admission	396
Courses of Study	396
Method of Instruction	398
Register of Students	399
SUMMER SESSION	409
General Statement	409
Fees	409
Summary of Registration	410
EXTENSION TEACHING	411
General Statement	411
Students	411
Courses of Instruction	411
Registration	412
Fees	412
Admission	413
Location	413
Institute of Arts and Sciences	413
DEGREES CONFERRED DURING 1912-13	415
Honorary Degrees	433
COMMENCEMENT CALENDAR, 1913	434
FELLOWSHIPS, SCHOLARSHIPS, AND OTHER PROVISION FOR THE	
ASSISTANCE AND REWARD OF STUDENTS	435
General Regulations	435
Fellowships	436
Scholarships	442
Loan Funds	447
Medals and Prizes	447
Scholarships and Prizes	452
Fellows and Scholars	456
Award of Honors, Columbia College, 1913	460
Scholarships and Prizes, Columbia College	460
Scholarships and Prizes in the School of Law	461
Fellowships, Scholarships, and Prizes in the College of Physi- cians and Surgeons	462
Scholarships and Prizes in the Schools of Mines, Engineering, and Chemistry	462

	PAGE
FELLOWSHIPS, SCHOLARSHIPS, ETC.— <i>Continued</i>	
Scholarships and Fellowships in the School of Architecture	462
Barnard College: Scholars, Honors, and Prizes	463
Teachers College: Fellows and Scholars	465
College of Pharmacy: Prizes	467
EXCHANGE PROFESSORS	468
STATED LECTURESHIPS	470
ALUMNI COUNCIL	472
ALUMNI ORGANIZATIONS	472
UNIVERSITY PUBLICATIONS	476
Official Publications	476
Columbia University Press	476
Alumni and Student Publications	476
ACADEMIC CALENDAR	481
DIRECTORY OF OFFICERS AND STUDENTS	485
SUMMARY OF OFFICERS AND STUDENTS	585
INDEX	587

TRUSTEES

GERARD BEEKMAN.....	35 East 38th Street
SETH LOW.....	30 East 64th Street
GEORGE L. RIVES (Chairman).....	69 East 79th Street
JOHN B. PINE (Clerk).....	63 Wall Street
HERMANN H. CAMMANN.....	84 William Street
REV. EDWARD B. COE.....	42 West 52nd Street
WILLIAM BARCLAY PARSONS.....	60 Wall Street
FRANCIS SEDGWICK BANGS.....	161 West 73rd Street
BENJAMIN AYMAR SANDS.....	46 Cedar Street
NICHOLAS MURRAY BUTLER.....	Columbia University
T. MATLACK CHEESMAN.....	Garrison-on-Hudson, N. Y.
HORACE W. CARPENTIER.....	108 East 37th Street
MARCELLUS HARTLEY DODGE.....	691 Fifth Avenue
REV. WILLIAM T. MANNING.....	27 West 25th Street
RT. REV. DAVID H. GREER.....	416 Lafayette Street
BENJAMIN B. LAWRENCE.....	60 Wall Street
[Alumni Trustee 1909-1915]	
WILLARD V. KING.....	60 Broadway
WILLIAM FELLOWES MORGAN.....	Arch 5, Brooklyn Bridge
[Alumni Trustee 1910-1916]	
STEPHEN BAKER.....	40 Wall Street
JAMES DUANE LIVINGSTON.....	Troy, N. Y.
[Alumni Trustee 1912-1917]	
FREDERIC R. COUDERT.....	2 Rector Street
WILLIAM DOUGLAS SLOANE.....	2 West 52nd Street
WALTER MENDELSON.....	159 West 74th Street
[Alumni Trustee 1913-1918]	
JOHN McLEAN NASH (Treasurer).....	63 Wall Street
<hr/>	
OFFICE OF THE TRUSTEES.....	63 Wall Street

[NOTE.—The date after each name indicates the expiration of term of office.]

ON FINANCE: MR. KING (1915) (*Chairman*), MR. BAKER (1914), **Committees**
MR. SANDS (1916), MR. RIVES (1917), MR. BANGS (1918).

ON BUILDINGS AND GROUNDS: MR. PINE (1918) (*Chairman*), MR.
LAWRENCE (1914), DR. CHEESMAN (1915), MR. MORGAN (1917),
the PRESIDENT (ex-officio).

ON HONORS: MR. RIVES (1918) (*Chairman*), BISHOP GREER (1914),
REV. DR. MANNING (1915), REV. DR. COE (1916), MR. SANDS (1917).

ON EDUCATION: DR. CHEESMAN (1916) (*Chairman*), MR. PARSONS (1914),
MR. BANGS (1915), REV. DR. COE (1917), MR. COUDERT (1918), MR.
RIVES (ex-officio), the PRESIDENT (ex-officio).

ON THE LIBRARY: The PRESIDENT (ex-officio) (*Chairman*), REV. DR.
MANNING (1914), MR. MORGAN (1915), REV. DR. COE (1916), MR.
PINE (1917); *Secretary*, the Librarian.

TRUSTEES OF OTHER CORPORATIONS

Barnard College

SILAS B. BROWNELL, *Chairman*

Mrs. A. A. ANDERSON, *Vice-Chairman*

FREDERIC B. JENNINGS, *Clerk*

GEORGE A. PLIMPTON, *Treasurer*

SILAS B. BROWNELL	PRESIDENT BUTLER
Mrs. JOSEPH H. CHOATE	ALBERT G. MILBANK
Mrs. ALFRED MEYER	MISS CLARA B. SPENCE
GEORGE A. PLIMPTON	HOWARD TOWNSEND
Mrs. JAMES TALCOTT	Mrs. GINO C. SPERANZA
Mrs. HENRY FAIRFIELD OSBORN	JOHN G. MILBURN
Mrs. A. A. ANDERSON	GEORGE L. RIVES
EDWARD W. SHELDON	MISS CHARLOTTE S. BAKER
The Very Rev. WILLIAM M. GROS-	HORACE W. CARPENTIER
VENOR	PIERRE JAY
FREDERIC B. JENNINGS	Mrs. CHARLES CARY RUMSEY
Mrs. HENRY N. MUNN	Mrs. HERBERT PARSONS

Committees EXECUTIVE COMMITTEE: Dr. BROWNELL (*Chairman*), Mrs. ANDERSON, (*Vice-Chairman*), Mr. JENNINGS (*Clerk*), Mr. MILBURN, Miss SPENCE, Miss BAKER, Mr. RIVES, Dr. GROSVENOR, Mrs. RUMSEY, the PRESIDENT, and the TREASURER (ex-officio)

ON FINANCE: Mr. TOWNSEND (*Chairman*), Mr. JAY, Mr. RIVES, and the Chairman of the BOARD OF TRUSTEES (ex-officio)

ON BUILDINGS AND GROUNDS: Mrs. PARSONS (*Chairman*), Miss SPENCE, Mrs. RUMSEY, the PRESIDENT and the Chairman of the BOARD OF TRUSTEES (ex-officio)

ON EDUCATION: Mr. MILBURN (*Chairman*), Mrs. OSBORN, Miss BAKER, the PRESIDENT and the Chairman of the BOARD OF TRUSTEES (ex-officio)

Teachers College

V. EVERIT MACY, *Chairman*

FRANK R. CHAMBERS, *Vice-Chairman*

NEWBOLD MORRIS, *Secretary*

CLARK WILLIAMS, *Treasurer*

ARTHUR TURNBULL, *Assistant Treasurer*

MISS GRACE H. DODGE	Mrs. HELEN HARTLEY JENKINS
PETER B. OLNEY	ARTHUR ISELIN
B. TALBOT B. HYDE	HORACE E. ANDREWS
JAMES SPEYER	FELIX M. WARBURG
JAMES E. RUSSELL	WILLIAM B. OSGOOD FIELD
Mrs. FREDERICK F. THOMPSON	DUNLEVY J. MILBANK
NICHOLAS MURRAY BUTLER	PHILIP A. ROLLINS

College of Pharmacy

NICHOLAS MURRAY BUTLER, *President*
 CHARLES F. CHANDLER, *Vice-President*
 WILLIAM JAY SCHIEFFELIN, *Vice-President*
 ALBERT PLAUT, *Vice-President*
 CLARENCE O. BIGELOW, *Treasurer*
 THOMAS F. MAIN, *Secretary*
 EDWARD W. RUNYON, *Assistant Secretary*
 W. B. SIMPSON, *Clerk of the College*

Term Expires 1914

WILLIAM C. ALPERS
 MAX J. BREITENBACH

CHARLES S. ERB
 JACOB WEIL

ROBERT S. LEHMAN

Term Expires 1915

ARTHUR H. ELLIOTT
 WILLIAM P. RITCHEY

DAVID COSTELO
 ERNEST STAUFFEN

V. CHAPIN DAGGETT

Term Expires 1916

OTTO P. AMEND
 ADOLPH HENNING

CASWELL A. MAYO
 REUBEN R. SMITH

HENRY C. LOVIS

UNIVERSITY COUNCIL

[NOTE.—The date after each name indicates the expiration of term of office.]

The President of the University
The Dean of the Faculties of Political Science,
Philosophy, Pure Science and Fine Arts
The Dean of Columbia College
The Dean of the Faculty of Applied Science
The Dean of the Faculty of Law
The Dean of the Faculty of Medicine
The Dean of Barnard College
The Dean of Teachers College
The Dean of the College of Pharmacy
The Provost of the University
The Provost of Barnard College
The Director of the Summer Session and Ex-
tension Teaching
The Director of the School of Journalism

ELECTED DELEGATES

Faculty of Political Science—Professor SELIGMAN, Chairman of Committee on Instruction, Professor DUNNING (1914), Professor MUNROE SMITH (1916)

Faculty of Philosophy—Professor CALVIN THOMAS, Chairman of Committee on Instruction, Professor DEWEY (1914), Professor TRENT (1916)

Faculty of Pure Science—Professor FISKE, Chairman of Committee on Instruction, Professor KEMP (1914), Professor WILSON (1916)

Faculty of Fine Arts—Professor HAMLIN (1914)

Faculty of Columbia College—Professor H. G. LORD (1914), Professor KEYSER (1916)

Faculty of Law—Professor REDFIELD (1914), Professor BURDICK (1916)

Faculty of Medicine—Professor STARR (1914), Professor LEE (1916)

Faculty of Applied Science—Professor ALEXANDER SMITH (1914), Professor MUNROE (1916).

Faculty of Barnard College—Professor CRAMPTON (1915)

Faculty of Teachers College—Professor E. L. THORNDIKE (1914), Professor LODGE (1916)

Union Theological Seminary—President BROWN

General Theological Seminary—Dean ROBBINS

OFFICERS OF ADMINISTRATION

- NICHOLAS MURRAY BUTLER, Ph.D., Jur.D., LL.D., D.Litt., President of the University
- FREDERICK J. E. WOODBRIDGE, A.M., LL.D., Dean of the Faculties of Political Science, Philosophy, Pure Science, and Fine Arts
- FREDERICK PAUL KEPPEL, A.B., Litt.D., Dean of Columbia College
- FREDERICK ARTHUR GOETZE, M.Sc., Dean of the Faculty of Applied Science
- HARLAN F. STONE, A.M., LL.B., Dean of the Faculty of Law
- SAMUEL W. LAMBERT, M.D., Dean of the Faculty of Medicine
- VIRGINIA C. GILDERSLEEVE, Ph.D., Dean of Barnard College and Adviser of Women Graduate Students
- JAMES EARL RUSSELL, Ph.D., LL.D., Dean of Teachers College
- HENRY H. RUSBY, M.D., Dean of the College of Pharmacy
- GEORGE C. DIEKMAN, M.D., Associate Dean of the College of Pharmacy
- WILLIAM H. CARPENTER, Ph.D., Provost of the University
- WILLIAM T. BREWSTER, A.M., Provost of Barnard College
- JAMES C. EGBERT, Ph.D., Director of the Summer Session and of Extension Teaching
- TALCOTT WILLIAMS, LL.D., L.H.D., D.Litt., Director of the School of Journalism
- JOHN W. CUNLIFFE, M.A., D.Litt., Associate Director of the School of Journalism
- ADAM LEROY JONES, Ph.D., Chairman of Committee on Undergraduate Admissions
- FRANK DIEHL FACKENTHAL, A.B., Secretary of the University
- KATHARINE S. DOTY, A.M., Secretary of Barnard College
- CLIFFORD BREWSTER UPTON, A.M., Secretary of Teachers College
- THOMAS F. MAIN, Secretary of the College of Pharmacy
- WALTER B. SIMPSON, Clerk of the College of Pharmacy
- HELEN C. WADELTON, Recorder
- CORNELIA P. MACY, Recorder
- ELIZABETH H. WHEELER, Recorder of the Medical School
- ISABELLE L. PRATT, Recorder of Teachers College
- MALCOLM M. ROY, A.B., Secretary of Appointments
- FRANK A. DICKEY, A.B., Registrar of the University
- EDWARD K. HAYT, A.M., Assistant Registrar and Assistant Bursar at the Medical School
- ANNA E. H. MEYER, A.B., Registrar of Barnard College
- THEODORA GEORGE, Registrar of Teachers College

CHARLES S. DANIELSON, Bursar of the University
 MRS. N. W. LIGGETT, A.B., Bursar of Barnard College
 CYRUS HURLBURT POMEROY, Bursar of Teachers College
 WILLIAM DAWSON JOHNSTON, A.M., Litt.D., Librarian of the University
 FREDERICK C. HICKS, A.M., LL.B., Assistant Librarian
 EDWARD R. SMITH, A.B., Reference Librarian Avery Architectural
 Library
 ELIZABETH G. BALDWIN, Librarian of Teachers College
 BERTHA L. ROCKWELL, Librarian of Barnard College
 ISADORE G. MUDGE, Ph.B., B.L.S., Reference Librarian
 ETHEL H. BUDINGTON, Supervisor Order Department
 HARRIET B. PRESCOTT, Supervisor Catalogue Department
 FREDERICK ARTHUR GOETZE, M.Sc., Consulting Engineer and Comptroller
 of Student Organizations
 HENRY LEE NORRIS, M.E., Superintendent of Buildings and Grounds
 CHARLES PRENTICE BENNS, M.E., Superintendent of Buildings and
 Grounds in Teachers College
 REV. RAYMOND C. KNOX, B.D., Chaplain of the University
 GEORGE LOUIS MEYLAN, A.M., M.D., Medical Director of the Gymnasium
 CHARLES T. MCFARLANE, Pd.D., Controller of Teachers College
 CLIFFORD K. BROWN, A. B., Secretary of Earl Hall.
 WILLIAM H. MCCASTLINE, M.D., Health and Sanitary Officer
 EMMA P. SMITH, A.M., Secretary for Women Graduate Students
 THOMAS D. WOOD, A.M., M.D., College Physician at Teachers College
 LUCETTA DANIELL, Social Director, Teachers College

Officers of Administration, 52 (18 of
 whom are also teaching officers)

Emeritus Officers

JOHN D. QUACKENBOS, A.M., M.D. Rhetoric
 FRANCIS DELAFIELD, M.D., LL.D. Practice of Medicine
 ABRAHAM JACOBI, M.D., LL.D. Diseases of Children
 WILLIAM R. WARE, LL.D. Architecture
 GEORGE M. LEFFERTS, M.D., M.Sc. Laryngology
 ARTHUR H. ELLIOTT, Ph.D., F.C.S. Chemistry, College of Pharmacy
 FREDERICK R. HUTTON, E.M., Ph.D., Sc.D. Mechanical Engineering
 ROBERT F. WEIR, M.D. Surgery
 T. MITCHELL PRUDDEN, M.D., LL.D. Pathology
 JOHN HOWARD VAN AMRINGE, Ph.D., L.H.D., LL.D. Mathematics
 CHARLES F. CHANDLER, M.D., LL.D., Sc.D. Chemistry
 VIRGIL COBLENTZ, Ph.D. Chemistry, College of Pharmacy
 JOHN W. BURGESS, Ph.D., LL.D., Jur.D. Political Science and
 Constitutional Law
 HENRY M. HOWE, A.M., LL.D. Metallurgy

Administrative Board of the Summer Session

(Term expires June 30, 1916)

Director EGBERT	Dean KEPPEL
Professor PAUL MONROE	Dean GILDERSLEEVE
	Dean WOODBRIDGE

(5)

Administrative Board of Extension Teaching

(Term expires June 30, 1916)

Director EGBERT	Dean KEPPEL
Professor PAUL MONROE	Dean GILDERSLEEVE
	Dean WOODBRIDGE

(5)

**Administrative Board on Instruction and Research in
Agriculture**

Professor O. S. MORGAN, Chairman	Professor CURTIS
Professor EGBERT	Professor MUSSEY
Professor LOVELL	Professor HARPER
Professor H. C. SHERMAN	Hon. A. S. DOWNING

(8)

Administrative Board of the School of Journalism

(Term expires June 30, 1915)

President BUTLER	Professor TRENT
Dean KEPPEL	Professor SEAGER
Director WILLIAMS	Professor SHOTWELL
Associate Director CUNLIFFE	Professor THORNDIKE (A. H.)
	Professor BEARD

(9)

Board of Managers of Vanderbilt Clinic

Mr. F. W. VANDERBILT	Dr. LAMBERT
Dr. CHEESMAN	Dr. F. C. WOOD

(4)

Board of Managers of the Sloane Hospital for Women

Mr. SLOANE	Dr. LAMBERT
Mr. RIVES	Dr. CRAGIN
	Dr. F. C. WOOD

(5)

Board of Managers of the George Crocker Special Research Fund

(Term expires June 30, 1915)

Mr. RIVES

Dean LAMBERT

Dr. CHEESMAN

Professor MACCALLUM

President BUTLER

Director WOOD

(6)

Advisory Committee on Art

EDWIN H. BLASHFIELD, N. A.

DANIEL C. FRENCH, A.M., N.A., Litt.D.

WILLIAM RUTHERFORD MEAD, LL.D.

(3)

University Committee on Student Organizations

Professor H. G. LORD, Chairman (1916) Professor FLETCHER (1914)

Professor KEMP (1913)

Mr. FACKENTHAL (1915)

Professor HAYES (1917)

MEMBERS OF FACULTIES AND TEACHING STAFF

- NICHOLAS MURRAY BUTLER.....President of the University
A.B., Columbia, 1882; A.M., 1883; Ph.D., 1884; LL.D., Syracuse, 1898; Tulane, 1901; Johns Hopkins, Princeton, Yale, and University of Pennsylvania, 1902; Chicago, 1903; Manchester and St. Andrews, 1905; Cambridge, 1907; Williams, 1908; Harvard and Dartmouth, 1909; D. Litt., Oxford, 1905; Jur.D., Breslau, 1911; Officier de la Légion d'Honneur, 1906, Commandeur, 1912; Order of the Red Eagle (Prussia), Commander, 1910; Member, American Academy of Arts and Letters, 1911.
- HENRY S. MUNROE.....Professor of Mining **Professors**
E.M., Columbia, 1869; Ph.D., 1876; Sc.D., 1904.
- MUNROE SMITH.....Professor of Roman Law and Comparative
Jurisprudence
A.B., Amherst, 1874; A.M., 1880; LL.B., Columbia, 1877; LL.D., 1904; J.U.D., Göttingen, 1880; J.D., Louvain, 1909.
- ¹FRANK J. GOODNOW.....Eaton Professor of Public Law and Municipal
Science
A.B., Amherst, 1879; A.M., 1886; LL.D., 1898; LL.B., Columbia, 1882, *cum laude*; LL.D., 1904; LL.D., Harvard, 1909.
- RICHARD J. H. GOTTHEIL....Professor of Rabbinical Literature and the
Semitic Languages
A.B., Columbia, 1881; Ph.D., Leipzig, 1886.
- EDWIN R. A. SELIGMAN...McVickar Professor of Political Economy
A.B., Columbia, 1879; A.M., 1883; LL.B., 1884; Ph.D., 1884; LL.D., 1904.
- WILLIAM HENRY CARPENTER..Villard Professor of Germanic Philology
and Provost of the University
A.B., Hamilton, 1881; Ph.D., Freiburg, 1881.
- M. ALLEN STARR.....Professor of Neurology
A.B., Princeton, 1876; A.M., 1879; Ph.D., 1884; LL.D., 1899; M.D., Columbia, 1880; Sc.D., 1904.
- ALFRED D. F. HAMLIN.....Professor of the History of Architecture
A.B., Amherst, 1875; A.M., 1885; L.H.D., St. John's College (Md.), 1912.
- ALFRED J. MOSES.....Professor of Mineralogy
E.M., Columbia, 1882; Ph.D., 1890.
- GEORGE S. HUNTINGTON.....Professor of Anatomy
A.B., Trinity, 1881; A.M., 1884; M.D., Columbia, 1884; Sc.D., 1904; LL.D., Jefferson Medical College, 1907.
- HERBERT L. OSGOOD.....Professor of History
A.B., Amherst, 1877; A.M., 1880; LL.D., 1907; Ph.D., Columbia, 1889.
- J. McKEEN CATTELL.....Professor of Psychology
A.B., Lafayette, 1880; A.M., 1883; LL.D., 1907; Ph.D., Leipzig, 1886; Member of National Academy of Sciences.
- FRANCIS M. BURDICK.....Dwight Professor of Law
A.B., Hamilton, 1869; LL.B., 1872; LL.D., 1895.
- GEORGE W. KIRCHWEY.....Kent Professor of Law
A.B., Yale, 1877; LL.D., Yale, University of Cincinnati, New York University, 1908.
- ¹JOHN BASSETT MOORE..Hamilton Fish Professor of International Law
and Diplomacy
A.B., Virginia, 1880; LL.D., Yale, 1901.

¹ Absent on leave, 1913-1914.

- HENRY FAIRFIELD OSBORN.....Research Professor of Zoölogy
A.B., Princeton, 1877; Sc.D., 1880; LL.D., Trinity College (Hartford), 1901;
Princeton, 1902; Columbia, 1907; Sc.D., Cambridge, 1904; Ph.D. (Hon.), Chris-
tiania, 1911; Member of National Academy of Sciences.
- EDWARD DELAVAN PERRY.....Jay Professor of Greek
A.B., Columbia, 1875; LL.D., 1904; A.M., and Ph.D., Tübingen, 1879.
- FRANK DEMPSTER SHERMAN.....Professor of Graphics
Ph.B., Columbia, 1884.
- WILLIAM A. DUNNING.....Lieber Professor of History and Political
Philosophy
A.B., Columbia, 1881; A.M., 1883; Ph.D., 1885; LL.D., 1904.
- ABRAHAM VALENTINE WILLIAMS JACKSON....Professor of Indo-Iranian
Languages
A.B., Columbia, 1883; A.M., 1884; L.H.D., 1885; Ph.D., 1886; LL.D., 1904.
- ADOLPHE COHN....Professor of the Romance Languages and Literatures
B. és. L., Paris, 1868; LL.B., 1873; A.M., 1874; Chevalier de la Légion d'Hon-
neur, 1900; Officier de la Légion d'Honneur, 1913. Cavaliere della Corona
d'Italia.
- EDMUND B. WILSON.....Da Costa Professor of Zoölogy
Ph.B., Yale, 1878; LL.D., 1901; Ph.D., Johns Hopkins, 1881; LL.D., 1902;
LL.D., Chicago, 1901; Sc.D., Cambridge, 1909; M.D. (Hon.), Leipzig, 1909;
Member of National Academy of Sciences.
- JAMES FURMAN KEMP.....Professor of Geology
A.B., Amherst, 1881; Sc.D., 1906; E.M., Columbia, 1884; LL.D., McGill, 1913;
Member of National Academy of Sciences.
- ROBERT PEELE.....Professor of Mining
E.M., Columbia, 1883.
- BRANDER MATTHEWS.....Professor of Dramatic Literature
A.B., Columbia, 1871; LL.B., 1873; A.M., 1874; LL.D., 1904; D.C.L., Univer-
sity of the South, 1899; Litt.D., Yale, 1901; LL.D., Miami, 1909; Chevalier
de la Légion d'Honneur, 1907; Member American Academy of Arts and Letters.
- ¹FRANCIS B. CROCKER.....Professor of Electrical Engineering
E.M., Columbia, 1882; Ph.D., 1895.
- MICHAEL IDVORSKY PUPIN.....Professor of Electro-Mechanics and
Director of Phoenix Research Laboratories
A.B., Columbia, 1883; Sc.D., 1904; Ph.D., Berlin, 1889; Member of National
Academy of Sciences.
- WILLIAM H. BURR.....Professor of Civil Engineering
C.E., Rensselaer Polytechnic, 1872.
- HENRY ALFRED TODD.....Professor of Romance Philology
A.B., Princeton, 1876; Ph.D., Johns Hopkins, 1885.
- FRANKLIN HENRY GIDDINGS.....Professor of Sociology and the History
of Civilization
A.B., Union, 1877; A.M., 1889; Ph.D., 1897; LL.D., Oberlin, 1900.
- GEORGE F. CANFIELD.....Professor of Law
A.B., Harvard, 1875; LL.B., 1880.
- THOMAS SCOTT FISKE.....Professor of Mathematics
A.B., Columbia, 1885; A.M., 1886; Ph.D., 1888.
- HAROLD JACOBY.....Rutherford Professor of Astronomy
A.B., Columbia, 1885; Ph.D., 1895.
- ¹JOHN B. CLARK.....Professor of Political Economy
A.B., Amherst, 1872; Ph.D., 1890; LL.D., 1897; LL.D., Princeton, 1896; Chris-
tiania, 1911.
- JAMES RIGNALL WHEELER..Professor of Greek Archaeology and Art
A.B., Vermont, 1880; LL.D., 1909; Ph.D., Harvard, 1885.
- FRANK N. COLE.....Professor of Mathematics
A.B., Harvard, 1882; A.M., and Ph.D., 1886.

¹ Absent on leave 1913-14.

- JAMES HARVEY ROBINSON.....Professor of History
A.B., Harvard, 1887; A.M., 1888; Ph.D., Freiburg, 1890.
- FREDERIC S. LEE.....Dalton Professor of Physiology
A.B., St. Lawrence, 1878; A.M., 1881; Ph.D., Johns Hopkins, 1885.
- JAMES CHIDESTER EGBERT.....Professor of Latin
A.B., Columbia, 1881; A.M., 1882; Ph.D., 1884.
- CALVIN THOMAS.....Gebhard Professor of the Germanic Languages and
Literatures
A.B., Michigan, 1874; A.M., 1877; LL.D., 1904.
- EDWIN B. CRAGIN.....Professor of Obstetrics and Gynecology
A.B., Yale, 1882; A.M. (Hon.), 1907; M.D., Columbia, 1886.
- BASHFORD DEAN.....Professor of Vertebrate Zoölogy
A.B., College of the City of New York, 1886; A.M., Columbia, 1889; Ph.D., 1890;
Chevalier de la Légion d'Honneur, 1910.
- WILLIAM MILLIGAN SLOANE.....Seth Low Professor of History
A.B., Columbia, 1868; L.H.D., 1887; A.M., and Ph.D., Leipzig, 1876; LL.D.,
Rutgers, 1898; Princeton, 1903; Union, 1912; Chevalier de la Légion d'Honneur,
1910; Member American Academy of Arts and Letters.
- EARL B. LOVELL.....Professor of Civil Engineering
C.E., Cornell, 1891.
- FRANZ BOAS.....Professor of Anthropology
Ph.D., Kiel, 1881; LL.D., Clark, 1909; Sc.D., Oxford, 1912; Member of National
Academy of Sciences.
- JOHN FRANCIS WOODHULL....Professor of Physical Science in Teachers
College
A.B., Yale, 1880; Ph.D., Columbia, 1899.
- FRANKLIN THOMAS BAKER....Professor of the English Language and
Literature in Teachers College
A.B., Dickinson, 1885; A.M., 1889; Litt.D., 1908; A.M., Columbia, 1900.
- RICHARD ELWOOD DODGE.....Professor of Geography in Teachers College
A.B., Harvard, 1890; A.M., 1894.
- VIRGIL PRETTYMAN.....Principal of Horace Mann High School with
rank of Assistant Professor in Teachers College
A.B., Dickinson, 1892; A.M., 1895; Pd.D., 1905.
- JAMES EARL RUSSELL.....Barnard Professor of Education
A.B., Cornell, 1887; Ph.D., Leipzig, 1894; LL.D., Dickinson, 1903; LL.D.,
McGill, 1909.
- HELEN KINNE.....Professor of Domestic Science in Teachers College
Diploma, Teachers College, 1890.
- ²FRANK M. McMURRY....Professor of Elementary Education in Teachers
College
Ph.D., Jena, 1889.
- PAUL MONROE....Professor of the History of Education in Teachers
College
B.S., Franklin, 1890; M.S., 1895; Ph.D., Chicago, 1897.
- SAMUEL TRAIN DUTTON.....Professor of School Administration in
Teachers College
A.B., Yale, 1873; A.M., 1900; LL.D., Baylor, 1912.
- WILLIAM P. TRENT.....Professor of English Literature
M.A., Virginia, 1884; LL.D., Wake Forest, 1899; D.C.L., University of the
South, 1905.
- HERBERT G. LORD.....Professor of Philosophy
A.B., Amherst, 1871; A.M., 1900.
- ³NELSON GLENN McCREA....Anthon Professor of the Latin Language
and Literature
A.B., Columbia, 1885; A.M., 1886; Ph.D., 1888.

³ Absent on leave second half-year.

- GONZALEZ LODGE..Professor of Latin and Greek in Teachers College
A.B., Johns Hopkins, 1883; Ph.D., 1886; LL.D., Franklin and Marshall, 1901.
- CLARENCE H. YOUNG.....Professor of Greek
A.B., Columbia, 1888; A.M., 1889; Ph.D., 1891.
- LIVINGSTON FARRAND.....Professor of Anthropology
A.B., Princeton, 1888; A.M., 1891; M.D., Columbia, 1891.
- JAMES MACLAY.....Professor of Mathematics
C.E., Columbia, 1888; Ph.D., 1899.
- MARSTON TAYLOR BOGERT.....Professor of Organic Chemistry
A.B., Columbia, 1890; Ph.B., 1894; LL.D., Clark, 1909.
- J. LIVINGSTON RUTGERS MORGAN.....Professor of Physical Chemistry
B.S., Rutgers, 1892; A.M. and Ph.D., Leipzig, 1895.
- HENRY E. CRAMPTON.....Professor of Zoölogy
A.B., Columbia, 1893; Ph.D., 1899.
- EDWARD LEE THORNDIKE....Professor of Educational Psychology in
Teachers College
A.B., Wesleyan, 1895; A.B., Harvard, 1896; A.M., 1897; Ph.D., Columbia, 1898.
- CHARLES HUBERT FARNSWORTH....Associate Professor of School Music
in Teachers College
- HENRY S. REDFIELD.....Nash Professor of Law
A.B., Amherst, 1877; A.M., 1887; LL.D., 1901.
- DAVID EUGENE SMITH..Professor of Mathematics in Teachers College
Ph.B., Syracuse, 1881; Ph.M., 1884; Ph.D., 1887; LL.D., 1905; M.Pd., Michigan
State Normal, 1898.
- THOMAS DENISON WOOD.....Professor of Physical Education
A.B., Oberlin, 1888; A.M., 1891; M.D., Columbia, 1891.
- CHARLES THADDEUS TERRY.....Professor of Law
A.B., Williams, 1889; LL.B., Columbia, 1893.
- WALTER B. JAMES.....Professor of Clinical Medicine
A.B., Yale, 1879; M.D., Columbia, 1883; LL.D., 1904; A.M. (Hon.), Yale, 1906.
- WILLIAM J. GIES.....Professor of Biological Chemistry
B.S., Pennsylvania College, 1893; M.S., 1896; Ph.B., Yale, 1894; Ph.D., 1897.
- WILLIAM T. BREWSTER.....Professor of English
A.B., Harvard, 1892; A.M., 1893.
- GEORGE CLINTON DENSMORE ODELL.....Professor of English
A.B., Columbia, 1889; A.M., 1890; Ph.D., 1893.
- CHARLES KNAPP.....Professor of Classical Philology
A.B., Columbia, 1887; A.M., 1888; Ph.D., 1890.
- L. EMMETT HOLT....Carpentier Professor of the Diseases of Children
A.B., Rochester, 1875; A.M., 1878; M.D., Columbia, 1880; Sc.D., 1904.
- AMADEUS W. GRABAU.....Professor of Palaeontology
S.B., Mass. Inst. of Tech., 1896; S.M., Harvard, 1898; S.D., 1900.
- HENRY ROGERS SEAGER.....Professor of Political Economy
Ph.B., Michigan, 1890; Ph.D., Pennsylvania, 1894.
- HENRY L. MOORE.....Professor of Political Economy
A.B., Randolph-Macon, 1892; Ph.D., Johns Hopkins, 1896.
- JOHN DYNELEY PRINCE.....Professor of Semitic Languages
A.B., Columbia, 1888; Ph.D., Johns Hopkins, 1892.
- FREDERICK JAMES EUGENE WOODBRIDGE....Johnsonian Professor of
Philosophy
A.B., Amherst, 1889; A.M., 1898; LL.D., 1903.
- FRIEDRICH HIRTH.....Dean Lung Professor of Chinese
A.M., and Ph.D., Rostock, 1869.
- FELIX ADLER.....Professor of Social and Political Ethics
A.B., Columbia, 1870; Ph.D., Heidelberg, 1873.

- JULIUS SACHS... Professor of Secondary Education in Teachers College
A.B., Columbia, 1867; A.M., 1871; Ph.D., Rostock, 1871.
- The Very Reverend WILFORD L. ROBBINS, D.D.. Dean of the General
Theological Seminary
A.B., Amherst, 1881; A.M., 1884; B.D., Episcopal Theol. School, 1887; D.D.,
St. Stephens, 1891; Amherst, 1903; Princeton, 1908; LL.D., Hobart, 1905.
- RALPH EDWARD MAYER.. Associate Professor of Engineering Draughting
C. E., Columbia, 1879.
- HERBERT MAULE RICHARDS..... Professor of Botany
B.S., Harvard, 1891; Sc.D., 1895.
- GARY N. CALKINS..... Professor of Protozoölogy
B.S., Mass. Inst. of Tech., 1890; Ph.D., Columbia, 1898.
- MARGARET E. MALTBY.. Associate Professor of Physics in Barnard College
A.B., Oberlin, 1882; A.M., 1891; B.S., Mass. Inst. of Tech., 1891; Ph.D., Göt-
tingen, 1895.
- CASSIUS JACKSON KEYSER..... Adrain Professor of Mathematics
B.S., Missouri, 1892; A.M., Columbia, 1896; Ph.D., 1901.
- MARSHALL H. SAVILLE... Loubat Professor of American Archaeology
- GEORGE L. MEYLAN... Associate Professor of Physical Education and
Medical Director of the Gymnasium
M.D., New York University, 1896; B.S., Harvard, 1902; A.M., Columbia, 1904.
- ELIJAH WILLIAM BAGSTER-COLLINS.. Associate Professor of German in
Teachers College
A.B., Brown, 1897; A.M., Columbia, 1898.
- MAURICE A. BIGELOW.. Professor of Biology and Director of Household
Arts in Teachers College
B.S., Ohio Wesleyan, 1894; M.S., Northwestern, 1896; Ph.D., Harvard, 1901.
- HENRY CARR PEARSON..... Principal of Horace Mann Elementary
School with rank of Assistant
Professor in Teachers College
A.B., Harvard, 1892.
- SAMUEL W. LAMBERT..... Professor of Applied Therapeutics
A.B., Yale, 1880; Ph.B., 1882; M.A. (Hon.), 1905; M.D., Columbia, 1885.
- GEORGE E. BREWER..... Professor of Clinical Surgery
A.B., Hamilton, 1881; A.M., 1882; M.D., Buffalo, 1884; M.D., Harvard, 1885.
- VIRGIL P. GIBNEY..... Professor of Orthopaedic Surgery
A.B., Kentucky, 1869; A.M., 1872; LL.D., 1899; M.D., Bellevue, 1871.
- WILLIAM K. SIMPSON..... Professor of Laryngology
M.D., Columbia, 1880.
- ARNOLD H. KNAPP..... Professor of Ophthalmology
A.B., Harvard, 1889; M.D., Columbia, 1892.
- GORHAM BACON..... Professor of Otology
A.B., Harvard, 1875; M.D., Bellevue, 1878.
- JAMES R. HAYDEN..... Professor of Genito-Urinary Diseases
M.D., Columbia, 1884.
- HERMANN T. VULTÉ..... Assistant Professor of Household Arts in
Teachers College
Ph.B., Columbia, 1881; Ph.D., 1885.
- FRANCIS CARTER WOOD..... Director of Cancer Research
B.S., Ohio State, 1891; M.D., Columbia, 1894.
- LEA MCLVAINE LUQUER..... Assistant Professor of Mineralogy
C.E., Columbia, 1887; Ph.D., 1894.
- LOUIS AUGUSTE LOISEAUX..... Assistant Professor of the Romance
Languages and Literatures
B.S., Dijon, 1894.

- WILLIAM ADDISON HERVEY.....Associate Professor of the Germanic
Languages and Literatures
A.B., Columbia, 1893; A.M., 1894.
- RUDOLF TOMBO, JR.....Associate Professor of the Germanic Languages
and Literatures
B.S., College of the City of New York, 1895; M.S., 1899; A.M., Columbia, 1898;
Ph.D., 1901.
- JOHN ANGUS MACVANNEL.....Professor of the Philosophy of Education
in Teachers College
A.B., Toronto, 1893; A.M., 1894; Ph.D., Columbia, 1898.
- RUSSELL BURTON-OPITZ.....Associate Professor of Physiology
M.D., Chicago, 1895; B.S., 1898; M.S., 1902; Ph.D., 1905.
- THOMAS HUNT MORGAN.....Professor of Experimental Zoölogy
B.S., State College of Kentucky, 1886; Ph.D., Johns Hopkins, 1891; Member
of National Academy of Sciences.
- ¹GEORGE STUART FULLERTON.....Professor of Philosophy and Exchange
Professor, University of Vienna, 1913-14
B.A., Pennsylvania, 1879; M.A., 1882; B.D., Yale, 1883; Ph.D., Muhlenburg,
1892; LL.D., 1900.
- JEFFERSON B. FLETCHER.....Professor of Comparative Literature
A.B., Harvard, 1887; A.M., 1889.
- HARRY MCMAHON PAINTER.....Professor of Clinical Obstetrics
A.B., Yale, 1884; Ph.B., 1885; M.D., Columbia, 1888.
- ¹CHARLES LANE POOR.....Professor of Celestial Mechanics
B.S., College of the City of New York, 1886; M.S., 1890; Ph.D., Johns Hopkins,
1892.
- CORNELIUS RÜBNER.....Professor of Music
Mus. Doc., George Washington, 1907.
- ARTHUR WESLEY DOW.....Professor of Fine Arts in Teachers College
- JOHN DEWEY.....Professor of Philosophy
A.B., Vermont, 1879; LL.D., 1910; Ph.D., Johns Hopkins, 1884; LL.D., Wis-
consin, 1904; Chicago, 1913; Member of National Academy of Sciences.
- HENRY H. RUSBY.....Professor of Materia Medica in the College of
Pharmacy
M.D., University Medical College of New York, 1884.
- GEORGE C. DIEKMANN.....Professor of Pharmacy in the College of
Pharmacy
Ph.G., New York College of Pharmacy, 1888; M.D., Columbia, 1901.
- JOHN OEHLER.....Assistant Professor of Chemistry in the College of
Pharmacy
Ph.G., New York College of Pharmacy, 1879.
- HENRY CLAPP SHERMAN.....Professor of Food Chemistry
B.S., Maryland Agricultural College, 1893; Sc.D., 1913; A.M., Columbia, 1896;
Ph.D., 1897.
- ¹WILLIAM ROBERT SHEPHERD.....Professor of History
A.B., Columbia, 1893; A.M., 1894; Ph.D., 1896.
- JAMES T. SHOTWELL.....Professor of History
A.B., Toronto, 1898; Ph.D., Columbia, 1903.
- GEORGE W. BOTSFORD.....Professor of History
A.B., Nebraska, 1884; A.M., 1889; Ph.D., Cornell, 1891.
- ALBERT P. WILLS.....Professor of Mathematical Physics
B.E.E., Tufts, 1894; Sc.D., 1911; Ph.D., Clark, 1897.
- ROBERT SESSIONS WOODWORTH.....Professor of Psychology
A.B., Amherst, 1891; A.B., Harvard, 1896; A.M., 1897; Ph.D., Columbia, 1899.
- BERN B. GALLAUDET.....Assistant Professor of Anatomy
A.B., Trinity, 1880; A.M., 1883; M.D., Columbia, 1884.

¹ Absent on leave 1913-14.

- SAMUEL A. TUCKER.....Assistant Professor of Electro-Chemistry
Ph.B., Columbia, 1895.
- HENRY BEDINGER MITCHELL.....Professor of Mathematics
E.E., Columbia, 1898; A.M., 1900.
- ²VLADIMIR G. SMKHOVITCH...Associate Professor of Economic History
Ph.D., Halle-Wittenberg, 1898.
- EDWARD THOMAS DEVINE.....Professor of Social Economy
B.A., Cornell College, Iowa, 1887; M.A., 1890; LL.D., 1904; Ph.D., Pennsylvania, 1895.
- FRANK W. JACKSON.....Professor of Clinical Medicine
M.D., Columbia, 1879.
- JOHN HENRY LARKIN.....Assistant Professor of Pathology
A.B., Manhattan, 1891; M.D., Columbia, 1894.
- CHARLES EDWARD LUCKE.....Professor of Mechanical Engineering
B.S., College of the City of New York, 1895; M.S., New York University, 1899;
Ph.D., Columbia, 1902.
- ³EDWARD KASNER.....Professor of Mathematics
B.S., College of the City of New York, 1896; A.M., Columbia, 1897; Ph.D., 1899.
- ASHLEY HORACE THORNDIKE.....Professor of English
A.B., Wesleyan, 1893; L.H.D., 1909; A.M., Harvard, 1896; Ph.D., 1898.
- ³WALTER RAUTENSTRAUCH.....Professor of Mechanical Engineering
B. S., Missouri, 1902; M.S., Maine, 1903.
- HENRY JOHNSON.....Professor of History in Teachers College
B.L., Minnesota, 1889; A.M., Columbia, 1902.
- ³MARY ADELAIDE NUTTING.....Professor of Nursing in Teachers College
Diploma, Johns Hopkins Hospital Training School for Nurses, 1891.
- EDWARD ROBINSON.....Director of the Metropolitan Museum of Art
A.B., Harvard, 1879; LL.D., Aberdeen, 1905; Litt.D., Columbia, 1911.
- NATHANIEL LORD BRITTON...Director of the New York Botanical Garden
E. M., Columbia, 1879; Ph.D., 1881; Sc. D., 1904.
- ANTON VORISEK.....Professor of Analytical Chemistry in the College
of Pharmacy
Phar.G., New York College of Pharmacy, 1898; Phar. D., 1902.
- FREDERICK ARTHUR GOETZE.....Dean of the Faculty of Applied Science
and Consulting Engineer
M.Sc., Columbia, 1905.
- FREDERICK PETERSON.....Professor of Psychiatry
M.D., Buffalo, 1879; Ph.D., Niagara, 1893.
- JAMES D. VOORHEES.....Associate Professor of Obstetrics
A.B., Princeton, 1890; A.M., 1893; M.D., Columbia, 1893.
- ROYAL WHITMAN.....Assistant Professor of Orthopaedic Surgery
M.D., Harvard, 1882.
- GEORGE R. LOCKWOOD.....Professor of Clinical Medicine
A.B., College of the City of New York, 1881; M.D., Columbia, 1884.
- WILLIAM K. DRAPER.....Professor of Clinical Medicine
A.B., Harvard, 1885; M.D., Columbia, 1888.
- VAN HORNE NORRIE.....Professor of Clinical Medicine
A.B., Columbia, 1885; M.D., 1889.
- DANIEL JORDAN.....Assistant Professor of the Romance Languages and
Literatures
B.S., University of France, 1888; Pd.B., University of the State of New York,
1893.
- ³ARTHUR F. J. REMY.....Assistant Professor of Germanic Philology
A.B., College of the City of New York, 1890; A.M., Columbia, 1897; Ph.D., 1901.
- ² Absent on leave first half-year. ³ Absent on leave second half-year.

- WILLIAM CAMPBELL.....Associate Professor of Metallurgy
B.S., Durham College of Science, 1898; Sc. D., 1905; M.Sc., Royal School of
Mines, 1903; Ph.D., Columbia, 1903; A.M., 1905.
- WILLIAM PEPPERRELL MONTAGUE...Associate Professor of Philosophy
A.B., Harvard, 1896; A.M., 1897; Ph.D., 1898.
- ³WILLIAM W. LAWRENCE.....Associate Professor of English
A.B., Bowdoin, 1898; A.M., Harvard, 1900; Ph.D., 1903.
- JAMES HOWARD MCGREGOR.....Assistant Professor of Zoölogy
B.S., Ohio State, 1894; A.M., Columbia, 1896; Ph.D., 1899.
- CHARLES A. BEARD.....Associate Professor of Politics
Ph.B., De Pauw, 1898; A.M., Columbia, 1903; Ph.D., 1904.
- DICKINSON S. MILLER.....Professor of Philosophy
A.B., and A.M., Harvard, 1892; Ph.D., Halle, 1893; Sc.D., Hobart, 1909.
- GRACE A. HUBBARD...Associate Professor of English in Barnard College
A.B., Smith, 1887; A.M., Cornell, 1893.
- ³NATHAN ABBOTT.....Professor of Law
A.B., Yale, 1877; LL.B., Boston, 1893.
- SAMUEL McCUNE LINDSAY.....Professor of Social Legislation
Ph.B., Pennsylvania, 1889; LL.D., 1909; Ph.D., Halle, 1892.
- WILLIAM MANSFIELD, Phar.D....Professor of Pharmacognosy in the
College of Pharmacy
- ³GEORGE D. STRAYER.....Professor of Educational Administration in
Teachers College
A.B., Johns Hopkins, 1903; Ph.D., Columbia, 1905.
- ²HENRY SUZZALLO.....Professor of the Philosophy of Education in
Teachers College
A.B., Stanford, 1899; A.M., Columbia, 1902; Ph.D., 1905.
- HERMANN VON W. SCHULTE.....Associate Professor of Anatomy
A.B., Trinity, 1897; M.D., Columbia, 1902.
- KENYON COX, N.A.....Professor of Painting
Member of American Academy of Arts and Letters.
- DANIEL CHESTER FRENCH, N.A.....Professor of Sculpture
A.M., Dartmouth; Litt.D., Columbia, 1913; Member of American Academy of
Arts and Letters.
- REV. FRANCIS BROWN, D.D..President of the Union Theological Seminary
A.B., Dartmouth, 1870; A.M., 1873; Ph.D., Hamilton, 1884; D.D., Dartmouth,
1884; Yale, 1894; Glasgow, 1901; Williams, 1908; Harvard, 1909; D.Litt., Ox-
ford, 1901; LL.D., Dartmouth, 1901.
- EDWARD LAWRENCE KURTZ.....Assistant Professor of Mining
E.M., Columbia, 1893.
- CARLTON CLARENCE CURTIS.....Associate Professor of Botany
A.B., Syracuse, 1889; Ph.D., 1893; A.M., Columbia, 1892.
- WILLIAM R. WILLIAMS.....Associate Professor of Therapeutics
A.B., Williams, 1889; A.M., 1892; M.D., Columbia, 1895.
- ARTHUR L. WALKER.....Professor of Metallurgy
E.M., Columbia, 1883.
- LUCIUS W. HOTCHKISS.....Professor of Clinical Surgery
A.B., Columbia, 1881; M.D., 1884.
- JOHN B. WALKER.....Professor of Clinical Surgery
A.B., Harvard, 1884; M.D., 1888.
- CHARLES NORTH DOWD.....Professor of Clinical Surgery
A.B., Williams, 1879; A.M., 1883; M.D., Columbia, 1886.
- THEODORE C. JANEWAY...Bard Professor of the Practice of Medicine
Ph.B., Yale, 1892; A.M. (Hon.), 1912; M.D., Columbia, 1895.

² Absent on leave first half-year.³ Absent on leave second half-year.

- EVAN M. EVANS.....Professor of Clinical Medicine
B.S., Princeton, 1892; M.D., Columbia, 1895.
- CHARLES H. PECK.....Professor of Clinical Surgery
M.D., Columbia, 1892.
- MARIE REIMER....Associate Professor of Chemistry in Barnard College
Ph.D., Bryn Mawr, 1904.
- GEORGE B. PEGRAM.....Associate Professor of Physics
A.B., Trinity (N. C.), 1895; Ph.D., Columbia, 1903.
- CHARLES P. WARREN.....Assistant Professor of Architecture
Ph.B., Columbia, 1890; A.M., 1892.
- BERGEN DAVIS.....Assistant Professor of Physics
B.S., Rutgers, 1896; A.M., Columbia, 1900; Ph.D., 1901.
- KARL MAX VOGEL.....Assistant Professor of Clinical Pathology
Ph.G., New York College of Pharmacy, 1896; M.D., Columbia, 1900.
- JOHN ERSKINE.....Associate Professor of English
A.B., Columbia, 1900; A.M., 1901; Ph.D., 1903.
- WILLIAM D. GUTHRIE.....Ruggles Professor of Constitutional Law
A.M. (Hon.), Yale, 1904.
- WILLIAM DAWSON JOHNSTON.....Librarian of the University
A.B., Brown, 1893; A.M., Harvard, 1898; Litt.D., Rutgers, 1911.
- ADAM LEROY JONES....Chairman of Committee on Undergraduate Ad-
missions and Associate Professor of Philosophy
A.B., Williams, 1895; Ph.D., Columbia, 1898.
- WILLIAM G. MACCALLUM.....Professor of Pathology
A.B., Toronto, 1894; M.D., Johns Hopkins, 1897.
- HENRY RAYMOND MUSSEY.....Associate Professor of Economics
A.B., Beloit, 1900; Ph.D., Columbia, 1905.
- ² NAOMI NORSWORTHY....Associate Professor of Educational Psychology
in Teachers College
B.S., Columbia, 1901; Ph.D., 1904.
- JOHN W. ALEXANDER, N.A....President of the National Academy of
Design
Member of American Academy of Arts and Letters.
- RAYMOND WEEKS....Professor of the Romance Languages and Literatures
A.B., Harvard, 1890; A.M., 1891; Ph.D., 1897.
- FREDERICK P. KEPPEL.....Dean of Columbia College
A.B., Columbia, 1898; Chevalier de la Légion d'Honneur, 1911; Litt.D., Pitts-
burgh, 1912.
- DAVID BOVAIRD, JR.....Assistant Professor of Clinical Medicine
A.B., Princeton, 1889; M.D., Columbia, 1892.
- NATHANIEL B. POTTER.....Assistant Professor of Clinical Medicine
A.B., Harvard, 1890; M.D., 1896.
- ¹ DANIEL GREGORY MASON.....Assistant Professor of Music
A.B., Harvard, 1895.
- CHARLES H. BURNSIDE.....Assistant Professor of Mechanics
B.S., Columbia, 1898; A.M., 1899.
- JAMES A. MILLER.....Professor of Clinical Medicine
A.B., Princeton, 1893; A.M., 1894; M.D., Columbia, 1899.
- ³ WILHELM A. BRAUN....Associate Professor of the Germanic Languages
and Literatures
A.B., Toronto, 1895; Ph.D., Columbia, 1903.
- MORTON ARENDT.....Assistant Professor of Electrical Engineering
E.E., Columbia, 1898.
- TRACY E. HAZEN.....Assistant Professor of Botany
A.B., Vermont, 1897; A.M., Columbia, 1899; Ph.D., 1900.
- ¹ Absent on leave 1913-14. ² Absent on leave first half-year.
 ³ Absent on leave second half-year.

- CHARLES P. BERKEY.....Associate Professor of Geology
B.S., Minnesota, 1892; M.S., 1893; Ph.D., 1897.
- RAYMOND C. OSBURN.....Assistant Professor of Zoölogy
B.S., Ohio State, 1898; M.S., 1900; Ph.D., Columbia, 1906.
- JOHN L. GERIG.....Associate Professor of Celtic
A.B., Missouri, 1898; A.M., 1899; Ph.D., 1902.
- HARRY M. AYRES.....Assistant Professor of English
A.B., Harvard, 1902; Ph.D., 1908.
- CAMILLE FONTAINE...Assistant Professor of the Romance Languages and
Literatures
B. és. L., Paris, 1875; B. en Dr., 1877; Lic. en Dr., 1878.
- CHARLES C. GROVE.....Assistant Professor of Mathematics
A.B., Pennsylvania State College, 1900; A.M., 1903; Ph.D., Johns Hopkins,
1906.
- JOHN HAROLD MORECROFT..Assistant Professor of Electrical Engineering
E.E., Syracuse, 1904; B.S., 1907.
- ALGERNON DE V. TASSIN.....Assistant Professor of English
A.B., Harvard, 1892; A.M., 1893.
- CARLTON H. HAYES.....Assistant Professor of History
A.B., Columbia, 1904; A.M., 1905; Ph.D., 1909.
- VIRGINIA C. GILDERSLEEVE...Dean of Barnard College and Professor of
English
A.B., Columbia, 1899; A.M., 1900; Ph.D., 1908.
- WILLIAM BENJAMIN FITE.....Professor of Mathematics
Ph.B., Cornell, 1892; Ph.D., 1901.
- HERBERT E. HAWKES.....Professor of Mathematics
A.B., Yale, 1896; Ph.D., 1900.
- GEORGE PHILIP KRAPP.....Professor of English
A.B., Wittenberg, 1894; A.M., 1897; Ph.D., Johns Hopkins, 1899.
- DEAN PUTNAM LOCKWOOD.....Assistant Professor of Classical Philology
A.B., Harvard, 1903; A.M., 1904; Ph.D., 1907.
- FRANK GARDNER MOORE.....Professor of Classical Philology
A.B., Yale, 1886; Ph.D., 1890.
- WALTER IRVINE SLICHTER.....Professor of Electrical Engineering
E.E., Columbia, 1896.
- HARLAN F. STONE.....Professor of Law
B.S., Amherst, 1894; A.M., 1900; LL.D., 1913; LL.B., Columbia, 1898.
- LA RUE VAN HOOK.....Associate Professor of Classical Philology
A.B., Michigan, 1899; Ph.D., Chicago, 1904.
- GEORGE V. WENDELL.....Professor of Physics
B.S., Mass. Inst. of Tech., 1892; Ph.D., Leipzig, 1898.
- MILTON C. WHITAKER.....Professor of Engineering Chemistry
B.S., University of Colorado, 1898; M.S., 1900.
- CURT P. WIMMER...Assistant Professor of Pharmacy in the College of
Pharmacy
Phar.G., New York College of Pharmacy, 1902; Phar.D., 1904; A.M., Columbia,
1909.
- FREDERICK G. BONSER..Associate Professor and Director of Industrial
Arts in Teachers College
B.S., Illinois, 1901; M.S., 1902; Ph.D., Columbia, 1911.
- ANNA M. COOLEY..Assistant Professor of Household Arts in Teachers
College
B.S., Columbia, 1903; Bachelor's Diploma, Teachers College, 1903; Diploma,
New York Normal College, 1893; Hunter Kindergarten Training School, 1894.
- JANE T. FALES.....Assistant Professor of Household Arts in Teachers
College
Diploma, Teachers College, 1906; B.S., Columbia, 1907.

- FREDERIC ERNEST FARRINGTON... Associate Professor of Education in Teachers College
A.B., Harvard, 1894; A.M., Columbia, 1902; Ph.D., 1904.
- PATTY S. HILL... Assistant Professor of Kindergarten Education in Teachers College
Diploma, Louisville Free Kindergarten Association Training School, 1888.
- AZUBAH J. LATHAM... Assistant Professor of Oral English in Teachers College
B.A., Boston University, 1880; Diploma, Boston School of Expression, 1890.
- CHARLES T. MCFARLANE... Professor of Geography in Teachers College
B.Pd., New York State Normal College, 1894; D.Pd., 1904; M.Pd., Michigan State Normal College, 1901.
- WILLIAM NOYES... Assistant Professor of Industrial Arts in Teachers College
A.B., Amherst, 1884; A.M., 1905.
- MRS. MARY D. SWARTZ ROSE... Assistant Professor of Household Arts in Teachers College
B.L., Denison, 1901; Diploma, Mechanics Institute, Rochester, 1902; B.S., Columbia, 1906; Ph.D., Yale, 1909; Diploma, Teachers College, 1906.
- HENRY A. RUGER... Assistant Professor of Educational Psychology in Teachers College
A.B., Beloit, 1895; A.M., Chicago, 1905; Ph.D., Columbia, 1910.
- CLIFFORD B. UPTON... Assistant Professor of Mathematics in Teachers College
A.B., Michigan, 1902; A.M., Columbia, 1907; Master's Diploma, Teachers College, 1907.
- MAY B. VAN ARSDALE... Assistant Professor of Household Arts in Teachers College
B.S., Columbia, 1905; Diploma, Teachers College, 1893.
- LAMONT A. WARNER... Assistant Professor of Household Arts in Teachers College
Diploma, Pratt Institute, 1898.
- J. RAMSAY HUNT... Chief of Clinic and Associate Professor of Neurology
M.D., Pennsylvania, 1893.
- CHARLES N. B. CAMAC... Assistant Professor of Clinical Medicine
A.B., Pennsylvania, 1892; M.D., 1895.
- CHARLES A. HARRIMAN... Assistant Professor of Architecture
- EVERETT J. HALL... Assistant Professor of Assaying
- FLOYD J. METZGER... Assistant Professor of Industrial Chemistry
Ph.B., Buchtel, 1899; Ph.D., Columbia, 1902.
- HARRY L. PARR... Assistant Professor of Mechanical Engineering
A.B., Columbia, 1902; Mech.E., 1904.
- SAMUEL OSGOOD MILLER... Assistant Professor of Drawing
C.E., Columbia, 1895.
- EDWARD F. KERN... Assistant Professor of Metallurgy
B.S., Tennessee, 1897; Ph.D., Columbia, 1901.
- HAL T. BEANS... Assistant Professor of Chemistry
B.S., Nebraska, 1899; A.M., 1900; Ph.D., Columbia, 1904.
- ALVAN A. TENNEY... Assistant Professor of Sociology
A.B., Columbia, 1898; A.M., 1899; Ph.D., 1907.
- CHARLES W. THOMAS... Assistant Professor of Mechanical Engineering
Mech.E., Stevens Inst. of Technology, 1884.
- EUGENE E. AGGER... Assistant Professor of Economics
A.B., Cincinnati, 1901; A.M., 1902; Ph.D., Columbia, 1907.

- ROBERT L. SCHUYLER Assistant Professor of History
A.B., Columbia, 1903; A.M., 1904; Ph.D., 1909.
- HENRY V. ARNY Professor of Chemistry in the College of Pharmacy
Ph.M., Philadelphia College of Pharmacy, 1889; Ph.D., Göttingen, 1896.
- CHARLES SEARS BALDWIN Professor of Rhetoric and English
Composition
A.B., Columbia, 1888; A.M., 1889; Ph.D., 1894.
- ALON BEMENT Assistant Professor of Fine Arts in Teachers College
A.B., Stanford, 1896; Ph.D., Chicago, 1911.
- ARTHUR H. BLANCHARD Professor of Highway Engineering
C.E., Brown, 1890; A.M., Columbia, 1902.
- ROBERT E. CHADDOCK Associate Professor of Statistics
A.B., Wooster College, 1900; A.M., Columbia, 1906; Ph.D., 1908.
- GRACE A. CORNELL Assistant Professor of Fine Arts in Teachers
College
Diploma, Pratt Institute, 1899.
- THOMAS B. FREAS Assistant Professor of Chemistry and Curator
of the Chandler Museum
A.B., Stanford, 1896; Ph.D., Chicago, 1911.
- WILLYSTINE GOODSSELL Assistant Professor of the History of Educa-
tion in Teachers College
B.S., Columbia, 1905; A.M., 1906; Ph.D., 1910.
- ROBERT A. HARPER Torrey Professor of Botany
A.B., Oberlin, 1886; A.M., 1891; Ph.D., Bonn, 1896.
- MILO B. HILLEGAS Assistant Professor of Elementary
Education in Teachers College
Ph.B., Rochester, 1897; Ph.D., Columbia, 1912.
- WILLIAM H. KILPATRICK Assistant Professor of the History of Educa-
tion in Teachers College
A.B., Mercer, 1891; A.M., 1892; Ph.D., Columbia, 1912.
- A. ARTHUR LIVINGSTON Assistant Professor of the Romance Languages
and Literatures
A.B., Amherst, 1904; Ph.D., Columbia, 1910.
- WARFIELD THEOBALD LONGCOPE Associate Professor of the Practice of
Medicine
A.B., Johns Hopkins, 1897; M.D., 1901.
- WILLIAM G. MARQUETTE Associate Professor of Botany
Ph.G., Northwestern, 1899; B.S., Wisconsin, 1903; Ph.D., 1907.
- O. S. MORGAN Professor of Agriculture
A.B., Illinois, 1905; M.S.A., Cornell, 1907; Ph.D., 1909.
- FRANK HENRY PIKE Assistant Professor of Physiology
A.B., Indiana, 1903; Ph.D., Chicago, 1907.
- ALEXANDER SMITH Professor of Chemistry
B.S., Edinburgh, 1886; Ph.D., Munich, 1889.
- TALCOTT WILLIAMS Professor of Journalism and Director of the
School of Journalism
A.B., Amherst, 1873; A.M., 1883; A.M. (Hon.), Pennsylvania, 1891; L.H.D.,
Amherst, 1896; Western Reserve, 1897; Pittsburgh, 1912; LL.D., Pennsylvania,
1895; Hobart, 1899; Western Reserve, 1909; Litt.D., Rochester, 1902.
- JOHN W. CUNLIFFE Professor of English and Associate Director of the
School of Journalism
B.A., London, 1884; M.A. (Classics), 1886; M.A. (Modern Languages), 1888;
D.Litt., 1892.
- ¹ WENDELL T. BUSH Associate Professor of Philosophy
A.B., Brooklyn Polytechnic Institute, 1889; A.M., Harvard, 1898; Ph.D.,
Columbia, 1905.

¹ Absent on leave 1913-14.

- WALTER B. PITKIN.....Associate Professor of Philosophy
A.B., Michigan, 1900; B.D., Hartford Theological Seminary, 1903.
- DAVID S. MUZZEY.....Associate Professor of History
A.B., Harvard, 1893; B.D., New York University, 1897; Ph.D., Columbia, 1907.
- CHARLES C. SLEFFEL.....Assistant Professor of Industrial Arts in
Teachers College
- CHARLES W. WEICK.....Assistant Professor of Industrial Arts in
Teachers College
B.S., Ohio State, 1898.
- ADRIAN VAN SINDEREN LAMBERT.....Associate Professor of Surgery
A.B., Yale, 1893; M.D., Columbia, 1896.
- GERTRUDE M. HIRST.....Assistant Professor of Classical Philology in
Barnard College
A.B., Newnham, Cambridge, 1890; A.M., Columbia, 1900; Ph.D., 1902.
- THOMAS H. HARRINGTON.....Assistant Professor of Drawing
C.E., Columbia, 1889.
- FREDERICK W. J. HEUSER.....Assistant Professor of the Germanic
Languages and Literatures
A.B., Columbia, 1901; A.M., 1902.
- IDA HELEN OGILVIE...Assistant Professor of Geology in Barnard College
A.B., Bryn Mawr, 1900; Ph.D., Columbia, 1903.
- LEWIS P. SICELOFF.....Assistant Professor of Mathematics
A.B., Central College, 1900; Ph.D., Columbia, 1912.
- EDWARD M. SALT.....Assistant Professor of Politics
B.A., Toronto, 1902; M.A., 1903; Ph.D., Columbia, 1911.
- PAUL E. HOWE.....Assistant Professor of Biological Chemistry
B.S., Illinois, 1906; A.M., 1907; Ph.D., 1910.
- DOUGLAS W. JOHNSON.....Associate Professor of Physiography
B.S., New Mexico, 1901; Ph.D., Columbia, 1903.
- AUSTIN W. LORD...Professor of Architecture and Director of the School
of Architecture
- ROBERT E. MACALARNEY.....Associate Professor of Journalism
A.B., Dickinson, 1893.
- ROMIETT STEVENS...Assistant Professor of Secondary Education in
Teachers College
B.S., Columbia, 1907; A.M., 1908; Ph.D., 1912.
- WILLIAM H. WOGLOM...Assistant Professor engaged in Cancer Research
M.D., Columbia, 1901.
- WILLIAM C. CLARKE.....Assistant Professor of Surgery
M.D., Columbia, 1899.
- HENRY S. PATTERSON.....Assistant Professor of Therapeutics
A.B., Williams, 1896; M.D., Columbia, 1900.
- T. STUART HART.....Assistant Professor of Clinical Medicine
A.B., Yale, 1891; A.M., 1893; M.D., Columbia, 1895.
- LEWIS F. FRISSELL.....Assistant Professor of Clinical Medicine
A.B., Yale, 1895; A.M., 1897; M.D., Columbia, 1900.
- CHARLES C. LIEB.....Assistant Professor of Pharmacology
A.B., Columbia, 1902; M.D., 1906.
- ¹JACKSON E. REYNOLDS.....Associate Professor of Law
A.B., Stanford, 1896; LL.B., Columbia, 1899.
- GEORGE A. TUTTLE.....Assistant Professor of Clinical Medicine
A.B., Amherst, 1883; M.D., Columbia, 1886.
- THOMAS R. POWELL.....Associate Professor of Constitutional Law
A.B., Vermont, 1900; LL.B., Harvard, 1904; Ph.D., Columbia, 1913.

¹ Absent on leave.

- CHARLES C. TROWBRIDGE.....Assistant Professor of Physics
B.S., Trinity (Ct.), 1892; M.S., 1903; Sc. D., 1908.
- ADAM M. MILLER.....Assistant Professor of Anatomy
A.B., Princeton, 1901; A.M., 1902.
- EDGAR H. STURTEVANT.....Assistant Professor of Classical Philology
A.B., Indiana, 1898; Ph.D., Chicago, 1901.
- FRANK S. MATHEWS.....Assistant Professor of Clinical Surgery
B.S., Washington and Jefferson, 1890; M.D., Columbia, 1893.
- LEONARD D. NORSWORTHY.....Assistant Professor of Civil Engineering
C.E., Columbia, 1909; A.M., 1910.
- FRANK C. SCHROEDER.....Assistant Professor of Mechanics
B.S., Wisconsin, 1907; C.E., 1910.
- WALTER HENRY HALL.....Professor of Choral and Church Music
- ALLAN ABBOTT.....Assistant Professor of English in Teachers College
- BENJAMIN R. ANDREWS.....Assistant Professor of Household Arts in
Teachers College
A.B., Cornell, 1901; A.M., 1903; Ph.D., Columbia, 1909.
- WILLIAM A. DOWNES.....Assistant Professor of Clinical Surgery
M.D., Columbia, 1895.
- JOHN A. FORDYCE.....Professor of Dermatology and Syphilology
A.B., Adrian, 1878; A.M., 1889; Ph.D. (Hon.), 1901; M.D., Chicago Medical
College, 1881; M.D., Berlin, 1888.
- ANNE W. GOODRICH.....Assistant Professor of Nursing and Health in
Teachers College
- DANIEL D. JACKSON.....Assistant Professor of Civil Engineering
B.S., Mass. Inst. of Tech., 1893; M.S., New York University, 1908.
- JAMES W. JOBLING.....Assistant Professor of Pathology
M.D., Tennessee Medical College, 1897.
- GEORGE B. PRESTON.....Assistant Professor of Steam Engineering
Mech.E., Cornell, 1888; M.M.E., 1897.
- J. ENRIQUE ZANETTI.....Assistant Professor of Chemistry
B.S., Harvard, 1906; A.M., 1907; Ph.D., 1909.
- HANS ZINSSER.....Professor of Bacteriology
A.B., Columbia, 1899; A.M. and M.D., 1903.
- HOWARD L. MCBAIN..Visiting Lecturer on Municipal Administration,
with the relative rank of Associate Professor
A.B., Richmond College, 1900; A.M., 1901; A.M., Columbia, 1905; Ph.D., 1907
- ELLERY C. STOWELL..Visiting Lecturer on International Law and Diplo-
macy, with the relative rank of Assistant Professor
A.B., Harvard, 1898
- JEAN PERRIN, Sc. D.....Visiting French Professor 1913-14
Professor of Physical Chemistry in the University of Paris
- KARL F. TH. RATHGEN, Ph.D.....Kaiser Wilhelm Professor of German
History and Institutions for the year 1913-14
Professor of Political Economy at the Colonial Institut, Hamburg.
- JOSEPH SCHUMPETER, Jur. D.....Visiting Austrian Professor 1913-14
- PAUL SHOREY, Ph.D.....Theodore Roosevelt Professor of American
History and Institutions in the University of Berlin for the
year 1913-14
Professor of Greek in the University of Chicago.

SIR COURTNEY ILBERT, G.C.B. Carpentier Lecturer **Special Lecturers**
Clerk of the House of Commons

LEONARD C. VAN NOPPEN, A.M. Queen Wilhelmina Lecturer on the
History, Language, and Literature of the Netherlands

[2]

JOHN S. THACHER. Professor of Clinical Medicine **Clinical Professors**
A.B., Yale, 1877; M.D., Columbia, 1880.

WALTER F. CHAPPELL. Professor of Clinical Laryngology
M.D., Toronto, 1879.

PORTER F. CHAMBERS. Professor of Clinical Gynecology
A.B., Emory, 1873; M.D., Bellevue Hospital Medical College, 1876.

FRANCIS HUBER. Professor of Clinical Medicine
B.S., College of the City of New York, 1873; M.D., College of Physicians and Surgeons, 1877.

ALEXANDER B. JOHNSON. Professor of Clinical Surgery
Ph.B., Yale, 1882; M.D., Columbia, 1885.

ROBERT LEWIS, JR. Professor of Clinical Otology
M.D., Columbia, 1885.

OTTO G. T. KILIANI. Professor of Clinical Surgery
M.D., Halle, 1888.

JACOB KAUFMANN. Professor of Clinical Medicine
M.D., Strassburg, 1885.

RUDOLF C. DENIG. Professor of Clinical Ophthalmology
M.D., Würzburg, 1891.

NATHAN E. BRILL. Professor of Clinical Medicine
A.B., College of the City of New York, 1877; A.M., 1883; M.D., New York University, 1880.

ARPAD G. GERSTER. Professor of Clinical Surgery
M.D., Vienna, 1872.

FREDERICK KAMMERER. Professor of Clinical Surgery
M.D., Freiburg, 1880.

EMANUEL LIBMAN. Professor of Clinical Medicine
A.B., College of the City of New York, 1891; M.D., Columbia, 1894.

NORBERT STADTMÜLLER. Professor of Clinical Medicine
M.D., Munich, 1889.

FRANK R. OASTLER. Professor of Clinical Gynecology
A.B., Yale, 1891; M.D., Columbia, 1894.

AUSTIN W. HOLLIS. Professor of Clinical Medicine
M.D., Columbia, 1890.

WALTON MARTIN. Professor of Clinical Surgery
Ph.B., Yale, 1889; M.D., Columbia, 1892.

HENRY H. M. LYLE. Professor of Clinical Surgery
M.D., Columbia, 1900.

HOWARD C. TAYLOR. Professor of Clinical Gynecology
Ph.B., Yale, 1888; M.D., Columbia, 1891.

[19]

LINNAEUS EDFORD LA FETRA. Associate in Diseases of Children **Associates**
A.B., Wesleyan, 1891; M.D., Columbia, 1894.

WALTER A. BASTEDO. Associate in Pharmacology and Therapeutics
Ph.G., New York College of Pharmacy, 1894; M.D., Columbia, 1899.

LINSLEY RUDD WILLIAMS. Associate in Clinical Medicine
A.B., Princeton, 1895; M.D., A.M., Columbia, 1899.

FELLOWES DAVIS, JR. Associate in Clinical Obstetrics
M.D., Columbia, 1899.

- GEORGE MONTAGUE SWIFT.....Associate in Clinical Medicine
A.B., Amherst, 1876; A.M., 1879; M.D., Columbia, 1879.
- ALWIN M. PAPPENHEIMER.....Associate in Pathology
A.B., Harvard, 1898; M.D., Columbia, 1902.
- FREDERICK TILNEY.....Associate in Anatomy
A.B., Yale, 1897; M.D., Long Island College Hospital, 1903; Ph.D., Columbia, 1912.
- FRANK E. WARD.....Associate in Music
- ISAAC LEVIN.....Associate in Cancer Research
M.D., St. Petersburg, 1890.
- EDWARD W. SCRIPTURE.....Associate in Psychiatry
Ph.D., Leipzig, 1891; M.D., Munich, 1906.
- MABEL F. WEEKS.....Associate in English in Barnard College
A.B., Radcliffe, 1894.
- ALBERT E. SUMNER.....Associate in Clinical Medicine
A.B., Amherst, 1889; M.D., Columbia, 1894; A.M., 1903.
- HENRY W. BERG.....Associate in Diseases of Children
A.B., College of the City of New York, 1878; M.D., Columbia, 1881.
- HERBERT S. CARTER.....Associate in Clinical Medicine
A.B., Princeton, 1892; A.M., 1895; M.D., Columbia, 1895.
- T. LESLIE SHEAR.....Associate in Classical Philology
A.B., New York University, 1900; A.M., 1903; Ph.D., Johns Hopkins, 1904
- GOLDTHWAITE H. DORR.....Associate in Law
A.B., Harvard, 1897; LL.B., Columbia, 1904.
- WALTER H. EDDY.....Associate in Biological Chemistry
B.S., Amherst, 1898; A.M., Columbia, 1908; Ph.D., 1909.
- WALTER BENSEL.....Associate in Hygiene and Preventive Medicine
M.D., Columbia, 1890.
- ALBERT A. BERG.....Associate in Clinical Surgery
A.B., College of the City of New York, 1891; M.D., Columbia, 1894.
- MAURICE PRÉVÔT.....Associate in Architecture
Diplômé Ecole des Beaux-Arts, 1900.
- WILBUR WARD.....Associate in Gynecology
A.B., Williams, 1900; M.D., Columbia, 1904.
- HAVEN EMERSON.....Associate in Physiology and in Medicine
A.B., Harvard, 1896; A.M. and M.D., Columbia, 1899.
- HORATIO B. WILLIAMS.....Associate in Physiology
A.B., Syracuse, 1900; M.D., 1905.
- ALFRED P. LOTHROP.....Associate in Biological Chemistry
A.B., Oberlin, 1906; A.M., 1907; Ph.D., Columbia, 1909.
- ROBERT A. LAMBERT.....Associate in Pathology
M.D., Tulane, 1907.
- MENAS S. GREGORY.....Chief of Clinic and Associate in Psychiatry
M.D., Albany Medical College, 1898.
- WILLIAM K. GREGORY.....Associate in Zoölogy
A.B., Columbia, 1900; A.M., 1905; Ph.D., 1910.
- EDWIN E. SLOSSON.....Associate in Journalism
B.S., Kansas, 1890; M.S., 1892; Ph.D., Chicago, 1902.
- ARTHUR WARE.....Associate in Architecture
B.S., Columbia, 1898; Diplômé École des Beaux-Arts, 1902.
- FRANKLIN MATTHEWS.....Associate in Journalism
A.B., Cornell, 1883.
- HERMAN O. MOSENTHAL, M.D....Associate in Biological Chemistry and
Instructor in Medicine
A.B., Columbia, 1899; M.D., 1903.

- WILLIAM DARRACH.....Associate in Surgery
A.B., Yale, 1897; A.M. and M.D., Columbia, 1901.
- HOWARD H. MASON.....Associate in Medicine
A.B., Brown, 1900; M.D., Columbia, 1904.
- WILLIAM W. HERRICK.....Associate in Medicine
A.B., Yale, 1902; M.D., 1905.
- LINCOLN DE GROOT MOSS.....Associate in Mechanical Engineering
- FREDERICK D. BULLOCK.....Associate in Cancer Research
B.S., Kentucky State College, 1899; M.D., Johns Hopkins, 1907.
- J. GARDNER HOPKINS.....Associate in Bacteriology
A.B. Columbia, 1902; M.D., Johns Hopkins, 1907.
- EUGENE HILLHOUSE POOL.....Associate in Surgery
A.B., Harvard, 1895; M.D., Columbia, 1899.
- RALPH W. GIFFORD.....Associate in Law
A.B., Harvard, 1894; LL.B., 1902.
- (39)

- RICHARD FROTHINGHAM, M.D.....Instructor in Laryngology **Instructors**
- WARD A. HOLDEN, M.D.. Chief of Clinic and Instructor in Ophthalmology
- HENRY H. TYSON, M.D.....Instructor in Ophthalmology
- CLARENCE A. MCWILLIAMS, M.D.....Instructor in Clinical Surgery
- OLIVER S. STRONG, Ph.D.....Instructor in Anatomy
- CHARLES I. PROBEN, M.D.....Instructor in Gynecology
- GEORGE H. RYDER, M.D.....Instructor in Gynecology
- SAMUEL W. THURBER, M.D.....Chief of Clinic and Instructor in
Laryngology
- EDWARD L. HUNT, M.D.....Instructor in Neurology
- CHARLES H. JAEGER, M.D.. Chief of Clinic and Instructor in Orthopaedic
Surgery
- HOWARD D. COLLINS, M.D.....Instructor in Clinical Surgery
- T. LAURANCE SAUNDERS, M.D.. Chief of Clinic and Instructor in Otology
- D. STUART DODGE JESSUP, M.D.....Instructor in Clinical Pathology
- JAMES I. RUSSELL, M.D.....Instructor in Clinical Surgery
- EDWARD KNIGHT JUDD, A.B., E.M.....Instructor in Mining
- ARTHUR S. VOSBURGH, M.D.....Instructor in Clinical Surgery
- PERCY HERBERT WILLIAMS, M.D.....Instructor in Gynecology
- KARL A. CONNELL, M.D.....Instructor in Surgery
- HUGH B. BLACKWELL, M.D.....Instructor in Clinical Otology
- HENRI F. MULLER, B. és L. Ph.D..Instructor in the Romance Languages
and Literatures
- LEIGHTON B. MORSE, Ph.D.....Instructor in Physics
- HUGH AUCHINCLOSS, M.D.....Instructor in Surgery
- FREDERICK H. BARTLETT, M.D.....Instructor in Diseases of Children
- RALPH W. LOBENSTINE, M.D.....Instructor in Clinical Gynecology
- HAROLD WORTHINGTON WEBB, Ph.D.....Instructor in Physics
- HERMANN FISCHER, M.D.....Instructor in Clinical Surgery

DE WITT STETTEN, M.D.....	Instructor in Clinical Surgery
OTTO M. SCHWERTDTFEGER, M.D.....	Instructor in Clinical Medicine
J. VICTOR HABERMAN, M.D.....	Instructor in Neurology and in Psycho- Therapeutics
ARTHUR COLON NEISH, Ph.D.....	Instructor in Chemistry
ROSCOE GUERNSEY, Ph.D.....	Instructor in Classical Philology
ELEANOR KELLER, A.M.....	Instructor in Chemistry in Barnard College
HAROLD C. BROWN, Ph.D.....	Instructor in Philosophy
PAULINE HAMILTON DEDERER, A.M.....	Instructor in Zoölogy in Barnard College
MARION E. LATHAM, A.M.....	Instructor in Botany in Barnard College
ALLEN W. PORTERFIELD, Ph.D....	Instructor in the Germanic Languages and Literatures
DINO BIGONGIARI, A.B.....	Instructor in the Romance Languages and Literatures
MAUDE A. HUTTMANN, A.M....	Instructor in History in Barnard College
GRACE LANGFORD, S.B.....	Instructor in Physics in Barnard College
WILLIAM F. COOLEY, Ph.D.....	Instructor in Philosophy
HARRISON R. STEEVES, A.M.....	Instructor in English
JOHN MAURICE NELSON, Ph.D.....	Instructor in Organic Chemistry
HERMON W. FARWELL, A.M.....	Instructor in Physics
HARRY L. HOLLINGWORTH, Ph.D.....	Instructor in Psychology
HARRY WILFRED REDDICK, Ph.D.....	Instructor in Mathematics
EDWARD D. THURSTON, JR., A.B., Mech.E....	Instructor in Mechanical Engineering
LOUISE HOYT GREGORY, Ph.D..	Instructor in Zoölogy in Barnard College
FREDERICK W. HEHRE, E.E.....	Instructor in Electrical Engineering
HENRY H. L. SCHULZE, A.M.....	Instructor in the Germanic Languages and Literatures
MRS. JULIANA S. HASKELL, Ph.D..	Instructor in the Germanic Languages and Literatures in Barnard College
OTTO HENSEL, M.D.....	Instructor in Clinical Medicine
LEANDER H. SHEARER, M.D....	Instructor in Clinical Medicine and in Physiology
JAMES S. MACGREGOR, M.S.....	Instructor in Civil Engineering
ISAAC O. WOODRUFF, M.D.....	Instructor in Clinical Medicine
MAX SCHULMAN, M.D.....	Chief of Clinic and Instructor in Applied Therapeutics
FREDERICK B. HUMPHREYS, M.D.....	Instructor in Pathology
HENRY E. HALE, JR., M.D....	Chief of Clinic and Instructor in Applied Therapeutics
F. MORRIS CLASS, M.D.....	Instructor in Applied Therapeutics
HAROLD B. CURTIS, Ph.D.....	Instructor in Mathematics
JAMES KIP FINCH, C.E., A.M.....	Instructor in Civil Engineering

EDWARD J. FORTIER, A.B.	Instructor in the Romance Languages and Literatures
ARTHUR LOWELL HERRICK, B.S., C.E.	Instructor in Mechanical Engineering
CHARLES W. MCMURTRY, M.D.	Instructor in Dermatology and Syphilology
ALFRED MICHAELIS, M.D.	Instructor in Otology
ERNEST H. WRIGHT, Ph.D.	Instructor in English
MATTHEW L. CARR, M.D.	Instructor in Otology
JAMES G. DWYER, M.D.	Instructor in Bacteriology
ALLEN O. WHIPPLE, M.D.	Instructor in Clinical Surgery
CARL VAN DOREN, Ph.D.	Instructor in English
WILLIAM K. TERRIBERRY, M.D.	Instructor in Physiology
MORRIS F. WEINRICH, Ph.D.	Instructor in Physics
WILLARD L. SEVERINGHAUS, A.M.	Instructor in Physics
WILLIAM HALLER, A.M.	Instructor in English
FRANK L. MASON, E.E.	Instructor in Electrical Engineering
CHARLES HERRMAN, M.D.	Chief of Clinic and Instructor in Diseases of Children
JESSE E. BEANS.	Instructor in Drawing
RUSSELL L. CECIL, M.D.	Instructor in Clinical Medicine
GERHARD H. COCKS, M.D.	Instructor in Clinical Laryngology
IRVING C. DEMAREST, A.M.	Instructor in Classical Philology
HENRY B. DROWNE, C.E.	Instructor in Highway Engineering
DONALD GORDON, M.D.	Instructor in Physiology
GORDON HARWOOD GRAVES, A.M.	Instructor in Mathematics
ROYAL STORRS HAYNES, M.D.	Instructor in Diseases of Children
EDWARD F. HUMPHREY, Ph.D.	Instructor in History
LOUIS IMBERT, A.M.	Instructor in Spanish
EDWARD CRANE LYON, JR., M.D.	Instructor in Obstetrics
WILLIAM S. MESSER, A.M.	Instructor in Classical Philology
NATHANIEL R. NORTON, M.D.	Instructor in Diseases of Children
ARTHUR W. SWANN, M.D.	Instructor in Clinical Medicine and in Clinical Pathology
JAMES R. WHITING, M.D.	Chief of Clinic and Instructor in Genito-Urinary Diseases
ANDREW BENDER, A.B.	Instructor in Analytical Chemistry
ROLFE KINGSLEY, M.D.	Instructor in Genito-Urinary Diseases
ALFRED STILLMAN, M.D.	Instructor in Clinical Surgery
ALFRED J. BROWN, M.D.	Instructor in Anatomy
RICHARD DERBY, M.D.	Instructor in Anatomy and in Clinical Surgery
JOHN C. VAUGHAN, M.D.	Instructor in Anatomy and in Surgery
R. GARFIELD SNYDER, M.D.	Instructor in Clinical Medicine
HENRY C. THACHER, M.D.	Instructor in Medicine

LUTHER HERBERT ALEXANDER, Ph.D.....	Instructor in the Romance Languages and Literatures
FREDERICK BARRY, Ph.D.....	Instructor in Chemistry
¹ JOHN R. CRAWFORD, A.M.....	Instructor in Roman Archaeology
HENRY W. L. DANA, Ph.D.....	Instructor in English
GEORGE DRAPER, M.D.....	Instructor in Clinical Medicine
EDWARD S. ELLIOTT, M.D.....	Instructor in Physical Education
CHARLES A. FISCHER, Ph.D.....	Instructor in Mathematics
HARRY L. FISHER, Ph.D.....	Instructor in Organic Chemistry
HARRY F. GARDNER, B.S.....	Instructor in Mineralogy
GERALD H. GROUT, M.D.....	Instructor in Ophthalmology
ROBERT M. HAIG, A.M.....	Instructor in Economics
BENJAMIN B. KENDRICK, A.M.....	Instructor in History
ROBERT H. LOMBARD, S.B.....	Instructor in Chemistry
GERHARD R. LOMER, Ph.D.....	Instructor in English
MATTHEW T. MCCLURE, Ph.D.....	Instructor in Philosophy
ROBERT K. MURPHY, Chem.E....	Instructor in Engineering Chemistry
HARRY V. E. PALMBLAD, A.M.....	Instructor in Germanic Languages
FRANK A. PATTERSON, Ph.D.....	Instructor in English
CHILTON L. POWELL, A.M.....	Instructor in English
ERNEST L. SCOTT, S.M.....	Instructor in Physiology
JAMES CLAYTON SHARP, M.D.....	Instructor in Anatomy
FORDYCE B. ST. JOHN, M.D.....	Instructor in Anatomy and in Clinical Surgery
ARTHUR W. THOMAS, Chem.....	Instructor in Food Chemistry
HERBERT L. WHITEMORE, Mech.E.....	Instructor in Mechanics
GEORGE F. WIESER, M.E.....	Instructor in Mechanical Engineering
NATHAN W. GREEN, M.D.....	Instructor in Surgery
EDWIN G. RAMSDELL, M.D.....	Instructor in Surgery
WILLIAM W. STIFLER, Ph.D.....	Instructor in Physics
DIXON R. FOX, A.M.....	Instructor in History
HERBERT B. WILCOX, M.D.....	Instructor in Diseases of Children
CLARE M. HOWARD, A.M.....	Instructor in English in Barnard College
EMILIE J. HUTCHINSON, A.M..	Instructor in Economics in Barnard College
RANSOM S. HOOKER, M.D.....	Instructor in Clinical Surgery
BERNARD O. DODGE, Ph.D.....	Instructor in Botany
FRANK ERDWURM, M.D.....	Instructor in Clinical Medicine
HENRY JAMES, M.D.....	Instructor in Medicine
WALTER W. MCKIRAHAN, Ph.D....	Instructor in Analytical Chemistry
ARTHUR M. BUSWELL, A.M.....	Instructor in Sanitary Chemistry
ROBERT P. CALVERT, A.M., S.M.....	Instructor in Chemistry

¹ Absent on leave 1913-14.

ARCHIBALD M. STRONG, M.D.....	Instructor in Medicine
FREDERIC G. GOODRIDGE, M.D.....	Instructor in Biological Chemistry
GOTTLIEB A. BETZ, A.M....	Instructor in the Germanic Languages and Literatures
ARTHUR B. EISENBREY, M.D.....	Instructor in Clinical Surgery
HAROLD A. FALES.....	Instructor in Chemistry
ANTHONY C. FREEMAN, M.D.....	Instructor in Pharmacology
H. RAWLE GEYELIN, M.D.....	Instructor in Clinical Pathology
GEORGE MUNRO GOODWIN, M.D.....	Instructor in Pharmacology
JAMES KENDALL, M.A., B.Sc.....	Instructor in Chemistry
T. BRUCE KIRKPATRICK, A.M.....	Instructor in Physical Education
JOHN A. MCCREERY, M.D.....	Instructor in Surgery
JOHN E. MCWHORTER, M.D.....	Instructor in Surgery
GEORGE M. MACKEE, M.D.	Instructor in Dermatology and Syphilology
ARTHUR W. MACMAHON, A.B.....	Instructor in Politics
SERGIUS MORGULIS, Ph.D.....	Instructor in Biological Chemistry
GEORGE W. MULLINS, Ph.D.....	Instructor in Mathematics
JOHN A. NORTHCOTT, A.M.....	Instructor in Mathematics
REUBEN OTTENBERG, M.D.....	Instructor in Bacteriology
HAROLD E. B. PARDEE, M.D.....	Instructor in Physiology
MAURICE J. SITTENFIELD, M.D.....	Instructor in Pathology
CHARLES H. SMITH, M.D.....	Instructor in Diseases of Children
RUPERT TAYLOR, Ph.D.....	Instructor in English
ROYAL C. VAN ETEN, M.D.....	Instructor in Gynecology
FRANK C. YEOMANS, M.D.....	Instructor in Surgery
BYRON C. DARLING, M.D.....	Instructor in Orthopedic Surgery

[162]

ABRAHAM YOHANNAN, Ph.D.....	Lecturer in Oriental Languages	Lecturers and Other Special Officers of Instruction
ERNST D. RICHARD, Ph.D.....	Lecturer on the History of German Civilization	
WILLIAM S. DAY, Ph.D.....	Lecturer in Physics	
RICHARD FRANZ BACH, A.B.....	Curator in Architecture	
FREDERICK A. VANDERBURGH, Ph.D....	Lecturer in Semitic Languages	
ALEXANDER GOLDENWEISER, Ph.D.....	Lecturer in Anthropology	
OSCAR H. ROGERS, M.D.....	Lecturer on Life Insurance	
ETHEL STURTEVANT, A.B.....	Lecturer in English in Barnard College	
GRACE H. GOODALE, A.B....	Lecturer in Classical Philology in Barnard College	
ALBERT T. POFFENBERGER, JR., Ph.D.....	Lecturer in Psychology	
HENRY N. ARNOLD, LL.B.....	Lecturer in Mining Law	
PIERRE DE BACOURT, B.S., B.L.....	Lecturer in Romance Languages	
GEORGE B. FORD, A.B., M.S., ¹ A.D.G.....	Lecturer in Architecture	
GEORGE C. HOLT, LL.D.....	Lecturer in Patent Law	

¹ Architecte Diplômé par le Gouvernement Française.

JULIAN BLANCHARD, A.M.	Lecturer in Physics
ESTHER E. LAPE, A.B.	Lecturer in English in Barnard College
JOHN J. COSS, A.M., B.D.	Lecturer in Philosophy
RUTH W. RAEDER, A.M.	Lecturer in Geology in Barnard College
FRITZ BERCKHEMER, Sc.D.	Curator in Palaeontology
REV. FATHER CORNELIUS CLIFFORD, A.B.	Non-resident Lecturer in Philosophy
LELAND HALL	Lecturer in Music
ROSCOE R. HILL, A.B.	Lecturer in History
SOLOMON T. H. HURWITZ, Ph.D.	Gustav Gottheil Lecturer in Semitic Languages
ARTHUR K. KUHN, A.M., LL.B.	Lecturer in Jurisprudence
ALBERT LEVITT, A.B., B.D.	Lecturer in Philosophy
WESLEY C. MITCHELL, Ph.D.	Lecturer in Economics
HARRY A. OVERSTREET, B.Sc.	Non-resident Lecturer in Philosophy
NORMAN KEMP SMITH, Ph.D.	Non-resident Lecturer in Philosophy
ARTHUR E. SUFFERN, A.M.	Lecturer in Economics
RALPH W. TOWER, Ph.D.	Honorary Curator of the Natural Science Collections in the Library
LOUIS BOURGUIN	Visiting French Lecturer 1913-14 [31]

Assistants	EDWARD CUSSLER, M.D.	Assistant in Clinical Pathology
	FREDERICK JAMES BARRETT, M.D.	Assistant in Clinical Medicine
	LILIAN BRANDT, M.A.	Assistant in Social Economy
	LEWIS M. SILVER, M.D.	Assistant in Diseases of Children
	FREDERICK P. WHITAKER, LL.B.	Assistant in Law
	KIRBY DWIGHT, M.D.	Assistant in Surgery
	ARTHUR LEFFERTS HUTTON, M.D.	Assistant in Applied Therapeutics
	CHARLES PACKARD, M.S.	Assistant in Zoölogy
	E. STAGG WHITIN, Ph.D.	Assistant in Social Legislation
	GEORGE A. SCOTT, B.S.	Assistant in Physics
	EDGAR ALTENBURG, A.M.	Assistant in Botany
	WILLIAM B. BOYD, M.D.	Assistant in Applied Therapeutics
	CLEMENT S. BRAININ, A.B.	Assistant in Physics
	EVEREND L. BRUCE, A.M.	Assistant in Mineralogy
	ALBERT R. LAMB, M.D.	Assistant in Pathology
	GEORGE A. PFEIFFER, A.M.	Assistant in Mathematics
	MONTGOMERY H. SICARD, M.D.	Assistant in Clinical Obstetrics
	WILLIAM HUNT MURPHY, B.S.	Assistant in Physics
	HAROLD P. BANKS, E.M.	Assistant in Metallurgy
	LAURA C. BRANT, A.M.	Assistant in Physics in Barnard College
	GASTON A. CARLUCCI, M.D.	Assistant in Clinical Pathology
	RUTH S. FINCH, A.M.	Assistant in Chemistry in Barnard College
	HUBERT B. GOODRICH, B.S.	Assistant in Zoölogy

FREDERICK S. GOUCHER, A.M.....	Assistant in Physics
ARTHUR KNUDSON, A.B.....	Assistant in Biological Chemistry
OTTO KUNKEL, A.M.....	Research Assistant in Botany
JOHN A. MCKINLEY, JR.....	Assistant in Drawing
HERMANN J. MULLER, A.M.....	Assistant in Zoölogy
ARTHUR E. NEERGAARD, M.D.....	Assistant in Medicine
JULIET STUART POYNTZ, A.M....	Assistant in History in Barnard College
ALFRED E. REJALL, A.M.....	Assistant in Psychology
HERBERT N. SHENTON, A.M.....	Assistant in Sociology
GEORGE F. WILLIAMSON, A.M.....	Assistant in Psychology
ALEXANDER LOWY, A.M....	Laboratory Assistant in Electro-Chemistry
EDWIN H. ARMSTRONG, E.E.....	Assistant in Electrical Engineering
JOHN C. BAKER, B.S., M.Pd.....	Laboratory Assistant in Engineering Chemistry
SIMON BIRNBAUM.....	Laboratory Assistant in General Chemistry
CALVIN B. COULTER, M.D.....	Assistant in Pathology
FRANK L. DE BEUKELAER, A.B...	Laboratory Assistant in Physical Chemistry
WILLIAM B. EDDISON, M.E.....	Assistant in Mechanical Engineering
CYRUS W. FIELD, M.D.....	Assistant in Pathology
GILBERT D. FISH, C.E.....	Assistant in Civil Engineering
ALLEN C. FRASER, B.S.....	Assistant in Botany
BAXTER P. HAMILTON, E.E.....	Assistant in Electrical Engineering
B. WALLACE HAMILTON, M.D.....	Assistant in Diseases of Children
ARTHUR ST. JOHN HILL, E.E.....	Assistant in Electrical Engineering
KARL J. HOLLIDAY, B.S..	Laboratory Assistant in General Chemistry
B. RAYMOND HOOBLER, M.D.....	Assistant in Diseases of Children
STAFFORD MCLEAN, M.D.....	Assistant in Diseases of Children
FRANK J. McMACKIN, A.M.....	Assistant in Mathematics
WILLIAM J. MERSEREAU, M.D.....	Assistant in Diseases of Children
FREDERICK MILLER, C.E.....	Assistant in Civil Engineering
GEORGE W. PECKHAM, JR., A.B.....	Assistant in Philosophy
WILLIAM A. PERLZWEIG, B.S.....	Assistant in Biological Chemistry
GOVERNEUR M. PHELPS, M.D.....	Assistant in Surgery
FREDERICK PRIME, JR., M.D.....	Assistant in Cancer Research
PERCY W. PUNNETT, A.M.....	Assistant in Chemistry
FREDERICK V. RAND, M.S.....	Assistant in Botany
MARK S. REUBEN, M.D.....	Assistant in Diseases of Children
EDWIN A. RIESENFELD, M.D.....	Assistant in Diseases of Children
GEORGE L. ROHDENBURG, M.D.....	Assistant in Cancer Research
ROGER B. SAYLOR, A.B.....	Assistant in Physics
CAROLYN SHELDON, A.B....	Assistant in History in Barnard College
WARREN S. SMITH, A.M.....	Assistant in Geology
MARY W. STEWART, A.B.....	Assistant in Botany in Barnard College

ERNEST G. STILLMAN, M.D.....Assistant in Pathology
 VIOLA TURCK, A.B...Research Assistant in Chemistry in Barnard College
 CLAYTON ULREY, A.M.....Assistant in Physics
 FRANCIS M. VAN TUYL, M.S.....Assistant in Palaeontology
 ANNA B. YATES, A.B....Assistant in Chemistry in Barnard College
 CHARLES C. PEARCE, A.B.....Assistant in Politics
 [71]

Clinical Assistants Officers of instruction holding appointments in addition to that of Clinical Assistant are not included in this list. A complete list of the Clinical Assistants in each subject will be found at the head of the appropriate Departmental Statement.

MEDICINE: JULIUS W. WEINSTEIN, M.D., ARTHUR MIDDLETON JACOBUS, M.D., ALBERT K. DETWILLER, M.D., MARKS S. SHAYNE, M.D., W. J. VOGELER, M.D., G. A. FRIEDMAN, M.D., LEO KESSEL, M.D., BARNETT QUEL, M.D., G. H. HUMPHREYS, M.D., J. EPSTEIN, M.D., JAMES M. KENT, M.D., ALEXANDER ROSENTHAL, M.D., V. PASCALE, M.D., M. FRIEDSON, M.D., F. C. HORSFORD, M.D., HENRY C. FLEMING, M.D., DAVENPORT WEST, M.D., M. D. MISLIG, M.D., B. GLASGOW, M.D., L. R. RAINSFORD, M.D., S. J. GOLDFARB, M.D., ANIBAL ZELAYA, M.D.; ALFRED C. HENDERSON, M.D., HERBERT J. WIENER, M.D.

SURGERY: NOEL B. LEGGETT, M.D., FRANK C. YEOMANS, M.D., HENRY S. DUNNING, M.D., FREDERICK T. VAN BEUREN, M.D., EDWARD A. CAIN, D.D.S., MONTGOMERY LA ROCHE, D.D.S., EDWIN J. NESTLER, D.D.S., FRANK J. REMY, D.D.S., FRANK S. SHIELDS, D.D.S.

ORTHOPAEDIC SURGERY: SIGMUND BOORSTEIN, M.D., WILLIAM FRIEDER, M.D., BRAINERD H. WHITBECK, M.D.

NEUROLOGY: CHARLES E. ATWOOD, M.D., E. J. MCENTEE, M.D., J. E. CLARK, M.D., J. L. MACUMBER, M.D., CHARLES H. HOLMES, M.D., WILLIAM V. P. GARRETSON, M.D., ABRAHAM A. BRILL, M.D., ROBERT E. POU, M.D., J. C. FISK, M.D., RICHARD H. MACRAE, M.D., GUSTAV F. BOEHME, M.D., WILLIAM SHARPE, M.D., HENRY K. MARKS, M.D.

GYNECOLOGY: HENRY K. W. KELLOGG, M.D., AUGUSTINE W. ROFF, M.D., WALTER M. SILLECK, M.D., DANIEL R. AYRES, M.D., EDWARD M. COLIE, JR., M.D.

OPHTHALMOLOGY: DANIEL W. FRYE, M.D., OSCAR DIEM, M.D., O. K. MEGEE, M.D., RALPH BARVER, M.D.

LARYNGOLOGY: A. P. COLL, M.D., JOHN LESHURE, M.D., C. D. VAN WAGENEN, M.D., CHARLES OSGOOD, M.D., E. WILLIS KOBLE, M.D., EDWARD E. MEYERS, M.D., DANIEL S. HARDENBERG, M.D., DAVID A. SINGER, M.D., A. S. BLUMGARTEN, M.D., ROY S. HINSDALE, M.D., BENJAMIN FREUDENFALL, M.D.

DERMATOLOGY AND SYPHILOLOGY: JOHN ALDRICH, M.D., SELDEN IRWIN RAINFORTH, M.D., FRED WISE, M.D., JOHN REMER, M.D.

DISEASES OF CHILDREN: IRA S. WILE, M.D., GEORGE AUGUSTUS SCHNEPEL, M.D., GUSTAVE R. MANNING, M.D., LESSER B. GROESCHEL, M.D., ERNEST E. CLEAVES, M.D., GOODRICH T. SMITH, M.D.

GENITO-URINARY DISEASES: BERNARD KOHN, M.D., JAMES ALBERT COWAN, M.D., THOMAS J. CARNEY, M.D., WILLIAM BLANCARD, M.D., F. W. BANCROFT, M.D., WALTER S. GRAHAM, M.D., S. W. FOWLER, M.D., B. H. BELCHER, M.D.

APPLIED THERAPEUTICS: PAUL BARTHOLOW, M.D., BENJAMIN J. BECK, M.D., SOLOMON BECK, M.D., E. R. P. JANVRIN, M.D., GEORGE H. HUMPHREYS, M.D., PHINEAS H. ADAMS, M.D., HERMAN C. FUHRMAN, M.D., LOUIS I. HARRIS, M.D.

HYDROTHERAPY: ALBERT J. WITTON, M.D.

PSYCHIATRY: ABRAHAM A. BRILL, M.D., C. F. HAVILAND, M.D., ROBERT EDWARD POU, M.D.

OTOLOGY: I. H. ALEXANDER, M.D., E. E. MEYERS, M.D.

**Teachers
College
Junior
Officers**

JULIUS AUGUST BEWER, Ph.D., *Biblical Literature*; MAUD MARCH, *Instructor in Physical Education*; MARY ALICE ASSERSON, M.D., *Assistant Physician*; CLARA BARBARA KIRCHWEY, *Instructor in Geography*; JEAN BROADHURST, A.M., *Instructor in Biology*; ANNA BARROWS, *Instructor in Household Arts*; GEORGE T. HOLM, *Instructor in Physical Training*; SALLIE B. TANNAHILL, *Instructor in Fine Arts*; MARGARET MAUD ZERBE, *Instructor in Music*; EDWARD THATCHER, *Instructor in Fine and Industrial Arts*; LYDIA SOUTHARD, A.B., *Instructor in Household Arts*; LILLIAN CURTIS DREW, *Instructor in Physical Education*; CHARLOTTE A. FRANCIS, A.M., *Instructor in Chemistry*; LOUISE CHRISTINE SUTHERLAND, B.S., *Instructor in Kindergarten*; CHARLOTTE GANO GARRISON, B. S., *Instructor in Kindergarten*; EVELYN SMITH TOBEY, B.S., *Instructor in Household Arts*; SADIE B. VANDERBILT, B.S., *Instructor in Chemistry*; MARY THEODORA WHITLEY, Ph.D., *Instructor in Educational Psychology*; CAROLINE E. STACKPOLE, A.M., *Instructor in Biology*; CORA MARGUERITE WINCHELL, B.S., *Instructor in Household Arts Education*; LYDIA RAY BALDERSTON, B.S., *Instructor in Household Arts*; RUTH PENFIELD SILL, *Instructor in Household Arts*; HELEN LATHAM, *Instructor in Music*; MARY HENLEY PEACOCK, Ph.B., *Instructor in Household Arts*; GRACE HITCHINGS BUCKNER, B.S., *Instructor in Fine Arts*; EMILY C. SEAMAN, Ph.D., *Instructor in Chemistry*; ISABEL MAITLAND STEWART, B.S., *Instructor in Nursing and Health*; MELINDA I. MANCHESTER, B.S., *Steward and Instructor in Household Arts*; ANNA WOODS BALLARD, A.B., *Instructor in French*; LUCILE GRACE FRENCH, *Instructor in Household Arts*; ¹CHARLES J. MARTIN, *Instructor in Fine Arts*; MARY G. MCCORMICK, A.M., *Instructor in Household Arts*; ANNIE E. MOORE, B.S., *Instructor in Elementary and Kindergarten Education*; BERTHA E. SHAPLEIGH, *Instructor in Household Arts*; ETHELWYN C. BRADISH, *Instructor in Fine Arts*; MARY PORTER BEEGLE, B.S., *Instructor in Physical Education*; HELEN DONOVAN, B.S., *Instructor in Household Arts*; ANNA CECILIA THORNTON, *Instructor in Physical Education*; JESSE FEIRING WILLIAMS, A.B., *Instructor in Physical Education*; LAURA IRENE BALDT, B.S., *Instructor in Household Arts*; JOHN JAY WALSH, *Instructor in Industrial Arts*; MARY REESOR, A.M., *Instructor in Physical Education*; ELLEN BEERS MCGOWAN, B.S., *Instructor in Chemistry*; LILLIAN M. B. GUNN, *Instructor in Household Arts*; MATTHEW GRUENBERG BACH, A.M., *Instructor in German*; CLIFFORD D. CARPENTER, A.B., *Instructor in Chemistry*; JOSEPH H. CONSTANTINE, *Instructor in Industrial Arts*; ELIZABETH CHRISTINE COOK, Ph.D., *Instructor in English*; LOUISE S. ATKINSON, B.S., *Instructor in Kindergarten Education*; GRACE LILLIAN BROWN, *Instructor in Kindergarten Education*; FRED FORMAN GOOD, A.M., *Instructor in Physical Science*; ROBERT PAUL GRAY, *Instructor in Household Arts*; HAROLD

¹ Absent on leave 1913-1914.

BROWN KEYES, M.D., *Instructor in Physical Education*; EMMA H. GUNTHER, B.S., *Instructor in Household Arts*; ELSA FRAME, *Instructor in Household Arts*; MATILDA J. MCKEOWN, B.S., *Instructor in Household Arts*; MEREDITH SMITH, *Instructor in Kindergarten Education*; GEORGE J. COX, *Instructor in Fine Arts*; SARAH LYMAN PATICK, *Instructor in Industrial Arts Education*; CLARA G. STAPLES, *Instructor in Household Arts*; LINETTE ALTHANA PARKER, B.S., *Instructor in Nursing and Health*; WILHELMINA SPOHR, *Instructor in Household Arts Education*; OSCAR S. TEALE, *Instructor in Industrial Arts*; JULIA HILL ATWELL, B.S., *Instructor in Fine Arts*; JANET ROWLAND SEIBERT, A.M., *Recorder, Department of Physical Education*; GRACE MARIE DASCHBACH, *Lecturer in Music*; S. JOSEPHINE BAKER, M.D., *Lecturer in Nursing and Health*; CALVIN B. CADY, *Lecturer in Music*; WILLIAM JACOB KRAFT, B.Mus., *Lecturer in Music*; FELIX LAMOND, *Lecturer in Music*; CLARA D. NOYES, *Lecturer in Nursing and Health*; TEUNIS J. VANDER BENT, *Lecturer in Household Arts*; LILLIAN D. WALD, LL.D., *Lecturer in Nursing and Health*; C.-E. A. WINSLOW, M.S., *Lecturer in Municipal Sanitation*; WILLIAM EDWIN BRECKENRIDGE, A.M., *Lecturer in Mathematics*; ANNE ROGERS WINSLOW, *Lecturer in Household Arts*; LEWIS EDWARD BISCH, Ph.D., *Lecturer in Educational Psychology*; JOSEPHINE HEMENWAY KENYON, M.D., *Lecturer in Nursing and Health*; ELLA PHILLIPS CRANDALL, *Lecturer in Nursing and Health*; MARY WROE CURTIS, *Assistant in Household Arts*; AMY LOGAN, B.S., *Assistant in Household Arts Education*; ROSE F. EGAN, A.M., *Assistant in English*; ABBOTT L. COMBES, *Assistant in Industrial Arts*; BERNADINE YUNCK, *Assistant in Physical Education*; ETHEL WICKWIRE, A.B., *Assistant in Biological Chemistry*; HERBERT E. EASTLACK, A.B., *Assistant in Chemistry*; GERTRUDE HAVENS, *Assistant in Fine Arts*; JESSICA M. HILL, B.S., *Assistant in English*; FRANK C. PANUSKA, *Assistant in Industrial Arts*; GENEVIEVE COY, *Assistant in Educational Psychology*; KATHERINE STEWART WORTHINGTON, A.B., *Assistant in English*; WINIFRED STUART GIBBS, *Assistant in Household Arts*; LOUISE B. MOSS, *Assistant in Chemistry*; AGNES BURKE, B.S., *Assistant in Kindergarten Education*; ETHEL M. ROBINSON, *Assistant in Kindergarten Education*; ANNA W. BROWN, *Assistant in English*; GASTON LOUIS MALÉCOT, B.és. L., *Assistant in French*; ANNA A. KUGLER, A.B., *Assistant in Mathematics*; GERTRUDE KLINE COLBY, *Assistant in Physical Education*; ISABELLE S. COOPER, *Assistant in Physical Education*; ANNE BISSELL BRYANT, *Assistant in Household Arts Education*; RUTH WATSON, *Assistant in Household Arts Education*; ADA M. FIELD, A.M., *Assistant in Household Arts*; GERTRUDE GATES, A.B., *Assistant in Chemistry*; WILLIAM A. SCHNEIDER, B.S., *Assistant in Chemistry*; J. MERRITT MCGEE, A.M., *Assistant in Chemistry*; CHARLOTTE B. RICHARDSON, *Assistant in Industrial Arts Education*; TULA LAKE HARKEY, *Assistant in Chemistry*; EMELIA F. SINOPOLI, B.S., *Assistant in Latin*

Teachers College Schools

**Horace
Mann**

SAMUEL TRAIN DUTTON, LL.D., *Superintendent of Teachers College Schools*; VIRGIL PRETTYMAN, Pd.D., *Principal of High School*; HENRY CARR PEARSON, A.B., *Principal of Elementary School*; CHARLOTTE GANO GARRISON, B.S., *Principal of Kindergarten*; MARION ROOT PRATT, *Secretary*; LOUISE VAN NESS DAY, *Secretary to Superintendent*; HELEN HOUGHTON, *Secretary to Principal of High School*; HELEN CRISSEY, *Secretary to Principal of Elementary School*; ETHEL ELLEN ROCKWELL, *Custodian of Library*

High School

VIRGIL PRETTYMAN, Pd.D., *Principal of High School*; JOSEPH CLIFTON BROWN, *Head of Department of Mathematics*; CHARLES MCCOY BAKER, *Head of Department of Classics*; WILHELM HELMUTH GOHDES, *Head of Department of Modern Languages*; ROLAND HUGH WILLIAMS, *Head of Department of Science*; KATE STUART ANTHONY, *Domestic Art*; HELEN BARTLETT BAKER, *English*; BELLE BOAS, *Fine Arts*; MARTIN BRUCE BOGARTE, *Mathematics*; ELIZABETH BRIGGS, *History*; FRANK ELBERT BROOKS, *French*; MARIE KARCHER BROOKS, *French*; HUGH HARRIS CALDWELL, *English*; LAURA BISHOP CRANDON, *German*; EVAN JOHN DAVID, *English*; JOHN BATES EYSTER, *German*; MARY BROWNSON GILLMORE, *History*; GEORGE THOMAS HOLM, *Swimming*; P. JOSEPH KERSEY, *Physical Training*; CLARA BARBARA KIRCHWEY, *Geography*; LILLIE MARIA LAWRENCE, *Latin*; ROBERT JOSSELYN LEONARD, *Industrial Arts*; ALTON T. LOCKHART, *Chemistry and Physics*; AMY LOGAN, *Domestic Science*; FORREST SUMNER LUNT, *English*; EMMA LENORE MACALARNEY, *English*; HARRY WHEELER MARTIN, *History*; JOHN H. MINNICK, *Mathematics*; BERTHA MULLER, *French*; WILLIAM JOSEPH NAGLE, *Latin*; JOHN DUELE NEITZ, *Special Teacher for Delinquent Pupils*; HELEN OGDEN, *Physical Training*; J. ROBERT OVERMAN, *Mathematics*; NINA FRANCES RAYNOR, *Latin*; MARIE LOUISE ROBERT, *French*; GUSTAV SANDER, *German*, *Prussian Exchange Instructor, 1913-14*; CHARLES CONRAD SLEFFEL, *Forging*; WAYLAND SPAULDING, *Latin and Greek*; LELAND J. STACEY, *Chemistry and Physics*; FLORENCE STUART, *Physical Training*; JOHN VAN SANT, *Mathematics*; FLORENCE LOUISE WEEKS, *Mathematics*; CHARLES WILLIAM WEICK, *Wood-Working*; ELIZABETH MARIAN WHELOCK, *English*; GRAY HUNTINGFORD WYMAN, *Latin*

**Elementary
School**

HENRY CARR PEARSON, A.B., *Principal of Elementary School*; CLARA MABEL WHEELER, *First Grade*; FLORENCE MABEL MCVEY, *First Grade*; EVELYN BATCHELDER, *Second Grade*; MILDRED IONE BATCHELDER, *Second Grade*; ELIZABETH CLEASBY, *First and Second Grades*; ALICE ELIZABETH PHELPS, *Open-Air Class*; MARY A. OLIVER, *Open-Air Class*; ROXANA ALER STEELE, *Third Grade*; THEO R. STONE, *Third Grade*; IDA ELIZABETH ROBBINS, *Fourth Grade*; FLORENCE MAY MARSHALL, *Fourth Grade*; MAUD VIVIAN KEYES, *Fifth Grade*; MARGARET CONDRY, *Fifth Grade*; SHERRED W. ADAMS, *Fifth Grade*; MARY FREDERIKA

KIRCHWEY, *Sixth Grade*; MARY GERTRUDE PEABODY, *Sixth Grade*; SIEGRIED HANSEN UPTON, *Sixth Grade*; CAROLINE WOODBRIDGE HOTCHKISS, *Seventh Grade*; LILLIAN EMILY ROGERS, *Seventh Grade*; GEORGIA FARRAND BACON, *Seventh Grade*; KATE STUART ANTHONY, *Domestic Art*; LUCIA WILLIAMS DEMENT, *Fine Arts*; HELEN LATHAM, *Music*; AMY LOGAN, *Domestic Science*; ROBERT JOSSELYN LEONARD, *Industrial Arts*; LUCY HESS WEISER, *Industrial Arts*; MARIE KARCHER BROOKS, *French*; LAURA BISHOP CRANDON, *German*; MARY PERLE ANDERSON, *Nature Study*; NORMAN B. WARD, *Physical Training*; HELEN WEBB JONES, *Physical Training*; P. JOSEPH KERSEY, *Physical Training*; GEORGE THOMAS HOLM, *Swimming*; GERTRUDE T. HARRIS, *Special, Sixth Grade*; ETHEL FAIR, *Grammar Assistant*; MYRTLE GARRISON, *Primary Assistant*; E. ANNETTE HINDS, *Assistant, Open-Air Classes*

CHARLOTTE GANO GARRISON, *Principal*; AGNES BURKE, *Teacher*; **Kinder-
garten**
MEREDITH SMITH, *Assistant*; ETHEL M. ROBINSON, *Assistant*

AMY SCHÜSSLER, B.S., *Principal*; LOUISE CHRISTINE SUTHERLAND, **Speyer
School**
Kindergarten Critic; BERTHA SCHWABLE, *Assistant in Kindergarten*; BERTHA BENTLEY, *First and Second Grade Critic*; IZA EDITH ANDRIX, *Second Grade*; IDA M. BENNETT, *Third Grade*; MARGARET ELIZABETH WELLS, *Third and Fourth Grade Critic*; HELEN BAILEY GOVER, *Fifth Grade*; BLANCHE EDNA CAMPBELL, *Fifth and Sixth Grade Critic*; EDWIN AUGUSTUS LEE, *Seventh Grade*; FLORENCE VAN AUKEN WATKINS, *Eighth Grade Critic*; LAURA VALENTINE, *Head Social Worker*; HELEN LATHAM, *Music*; ETHELWYN COVENTRY BRADISH, *Art Critic*; ROBERT JOSSELYN LEONARD, *Industrial Arts*; CORA MARGUERITE WINCHELL, *Domestic Science Critic*; GERTRUDE K. COLBY, *Physical Training*; MABEL VAN DEVENTER, *Office Assistant*

Summer Session of 1913

H. V. ABBOTT, A.B., *English*; CARTER ALEXANDER, Ph.D., *Educational Administration*; BENJAMIN MCALESTER ANDERSON, JR., Ph.D., *Economics*; WALTER SCOTT ATHEARN, A.B., *Religion*; JOHN SPENCER BASSETT, Ph.D., *History*; SAMUEL ELIOT BASSETT, Ph.D., *Classical Philology*; FREDERICK REGINALD BEYGRAU, *Stenography*; ORLANDO C. BOWES, B.S., *Agriculture*; J. C. BOYERS, A.M., *Physical Education*; ALBERT CLARENCE BOYLE, A.M., *Geology*; ARTHUR C. L. BROWN, Ph.D., *English*; CHARLES K. BURDICK, LL.B., *Law*; JOHN WILFRED BURLEY, *Industrial Arts*; ERNEST BURNHAM, Ph.D., *Rural Education*; FREEMAN BURR, A.B., *Geology*; C. M. CARSON, *Chemistry*; C. E. CARTER, Ph.D., *History*; FRANK W. CHANDLER, Ph.D., *English and Comparative Literature*; WERRETT WALLACE CHARTERS, Ph.D., *Elementary Education*; ALBERT M. COHN-MCMASTER, A.M., *Romance Languages*; ROSSETTER G. COLE, Ph.B., *Music*; STEPHEN SHELDON COLVIN, Ph.D., *Educational Psychology*; LEONIDAS WAKEFIELD CRAWFORD, JR., A.M., *Excursions, Assistant to the Director*; MICHAEL

**Officers of
Instruction
Holding Ap-
pointments
Only in the
Summer
Session**

F. DEE, LL.B., *Law*; GRACE G. DENNY, A.B., *Household Arts*; JOSEPH VILLIERS DENNEY, A.M., *English*; LLOYD L. DINES, Ph.D., *Mathematics*; GEORGE M. DUTCHER, *History*; ANDREW WHEATLEY EDSON, A.M., *Educational Administration*; CHARLES A. ELLWOOD, Ph.D., *Sociology*; FRANKLIN CHARLES FETTE, Ph.B., *Physical Education*; LEONA H. FETTE, A.B., *Physical Education*; JOHN DRISCOLL FITZ-GERALD, II, Ph.D., *Romance Languages*; JAMES EVERETT FRAME, A.M., *New Testament Literature*; FRED FROMME, B.S., *Botany*; JOSEPH FLOYD FULLER, *Industrial Arts*; JOHN MONTGOMERY GAMBRILL, *History*; GARRARD GLENN, LL.B., *Law*; RICHARD MOTT GUMMERE, Ph.D., *Classical Philology*; WALTER PHELPS HALL, Ph.D., *History*; EDWARD FRANKLIN HAUCH, A.M., *German*; ERNEST NORTON HENDERSON, Ph.D., *Philosophy of Education*; W. D. HOWE, Ph.D., *English*; GORDON FERRIE HULL, Ph.D., *Physics*; OTTO-VICTOR HUMANN, *Fine Arts*; JOHN WILLIAM INGLE, JR., *Architecture*; CHARLES HUGHES JOHNSTON, Ph.D., *Educational Administration*; HELEN REX KELLER, B.L., *Library Economy*; ANDREW KEOGH, A.M., *Library Economy*; S. BERNARD KOOPMAN, B.C.S., *Bookkeeping*; ANGELO LIPARI, A.M., *Romance Languages*; AGNES MCCARTHY, *Textiles and Clothing*; ROSWELL CHENEY MCCREA, Ph.D., *Economics*; MARY DE BURE MCCURDY, *Library Economy*; GRACE HARRIET MACURDY, Ph.D., *Classical Philology*; JEANNE MARIE MATTOON, *Music*; MAX MEYER, Ph.D., *Psychology*; WILLIAM CABLER MOORE, Ph.D., *Chemistry*; WILLIAM UNDERHILL MOORE, A.M., *Law*; MARJORIE O'CONNELL, A.M., *Geology*; HARRY ALLEN OVERSTREET, B.S., *Philosophy*; MARY RANKIN, *Kindergarten Education*; FREDERICK WILLIAM SCHOLZ, A.M., *German*; WALTER DILL SCOTT, Ph.D., *Educational Psychology*; ANNE SELLECK, B.S., *Fine Arts*; DELOSS SMITH, *Music*; STEVENSON SMITH, Ph.D., *Educational Psychology*; W. S. STEVENS, Ph.D., *Commerce*; ANN GILCHRIST STRONG, *Household Arts*; CLARENCE F. TIFT, *Swimming*; LOUIS VON GLEHN, *Teaching of French*; WILLIAM L. VOSBURGH, A.B., *Mathematics*; CHARLES DIGBY WARDLAW, A.B., *Physical Education*; ARTHUR WARE, B.S., *Architecture*; MARGARET FLOY WASHBURN, Ph.D., *Psychology*; D. E. WATKINS, *English*; ARTHUR GORDON WEBSTER, Ph.D., *Physics*; W. L. WESTERMAN, Ph.D., *History*; ALBERT BEEBE WHITE, Ph.D., *History*; WALTER GEORGE WHITMAN, A.M., *Physical Science*; HERBERT L. WHITEMORE, M.E., *Mechanics*; JOHN PAUL JONES WILLIAMS, *Civil Engineering*; EVA WILSON, *Household Administration*; IRVAH LESTER WINTER, A.B., *English*; IRVING FRANCIS WOOD, Ph.D., *Philosophy and History of Religion*; THEODORA ETHEL WYE, B.S., *Classical Philology*; B. E. YOUNG, Ph.D., *Romance Languages*.

Assistants BLANCHE ADLER, *Physical Education*; EDITH B. ATKINS, *Physical Education*; CORINNE BEATRICE BRAY, *Household Arts*; MABEL A. BRITTAIN, *English*; I. L. BROOKMYER, *Chemistry*; ANNA BROWN, *English*; HARRIET Z. CAMPBELL, *Critic Teacher*; MARTHA V. CARLING, *Nurse*;

DONALD L. CLARK, A.M., *English*; B. F. COOLEY, *Stenography*; C. E. DAVIS, *Chemistry*; OLIVE J. DODGE, *Grammar Assistant*; F. R. ELDER, *Chemistry*; SARAH FISKE, *Educational Psychology*; MABEL FLETCHER, *Nursing and Health*; C. R. FOUNTAIN, Ph.D., *Physics*; HARRIET FOX, A.M., *English*; MOLLY GEISS, *Educational Psychology*; HELEN GOSS, *Elementary Education*; JOSEPH GROSS, *Household Arts*; J. H. HANGER, *Secondary Education*; WILLIAM HARNED, *Stenography*; HORACE G. HEALEY, A.M., *Stenography*; MERLE M. HOOVER, A.M., *English*; ELIZABETH KURTZ, *Geology*; ERNEST LITTLE, *Chemistry*; GILBERT MAIN, *Physical Education*; NORBERT MELVILLE, *Educational Psychology*; EVANGELINE A. MOON, A.M., *Geography*; CHARLOTTE B. NORTON, B.S., *Library Economy*; MARY MAUDE PATRICK, *Elementary Education*; KATHERINE A. PRITCHETT, *Nutrition*; SUSIE E. PURVIS, *English*; S. H. REGISTER, *Chemistry*; WINFIELD LAWRENCE RICE, A.B., *History*; WORTLEY F. RUDD, *Chemistry*; WILLIAM A. SCHNEIDER, *General Chemistry*; PRESTON WILLIAM SLOSSON, B.S., *History*; DOROTHY G. STEAVENS, *Critic Teacher*; ROLLO ANSON TALLCOTT, A.B., *English*; ARTURO TORRES, *Physical Science*; ETHEL P. WHEELER, *Critic Teacher*; SARAH PARKER WHITE, Ph.D., *Philosophy*; JULIE E. YOUNGS, *Kindergarten*.

Extension Teaching

Instructors: G. M. ALLEN, *Architecture*; F. P. BALTZ, *Bookkeeping*; F. R. BEYGRAU, *Stenography*; O. C. BOWES, *Agriculture*; D. E. BOYCE, *Accounting*; E. W. BURRILL, *English*; A. L. CLARK, *Agriculture*; D. L. CLARK, *English*; E. J. CLEVELAND, *Latin*; A. J. CROSS, *Practical Optics*; R. D. CURRIER, *Law*; W. E. CURT, *Mathematics*; M. J. DAVIES, *Assistant to the Director*; K. M. DAVIS, *Correspondence*; F. B. DOW, *English*; D. B. DUNCAN, *English*; W. O. FARNSWORTH, *French*; C. R. GASTON, *English*; H. M. HALL, *English*; E. M. HALLIDAY, *English*; C. HAMILTON, *English*; W. E. HARNED, *Stenography*; E. F. HAUCH, *German*; P. M. HAYDEN, *Spanish*; H. G. HEALEY, *Stenography*; R. H. HODGE, *Biblical Literature*; G. G. HUBBART, *Advertising and Salesmanship*; H. H. HUGHES, *English*; C. M. KEYS, *Investments*; S. B. KOOPMAN, *Accounting*; G. KRIEHN, *Fine Arts*; D. B. LAKE, *Agriculture*; W. K. LANE, *Assistant to the Director (Brooklyn)*; B. F. LUKER, *French*; E. MARGOLIS, *Semitic Languages*; D. H. MILES, *English*; B. E. MITCHELL, *Mathematics*; T. C. MITCHILL, *English*; H. R. MONTGOMERY, *Accounting*; J. L. NICHOLSON, *Accounting*; F. S. NOWLAN, *Mathematics*; H. C. OLINGER, *French*; R. M. PIERCE, *English*; D. C. POND, *Architecture*; J. P. PORTER, *Education*; J. A. REICHLING, *German*; J. L. RUSSO, *Italian*; A. SNYDER, *Education*; W. S. STEVENS, *Commerce and Finance*; E. K. STRONG, JR., *Psychology*; S. M. TUCKER, *English*; L. R. WELZMILLER, *Practical Optics*; B. C. WILLIAMS, *Short Story*; O. WILLIAMS, *Library Training*; H. P. WILLIS, *Transportation*; S. L. WOLFF, *English*; F. A. WOLL, *Optometry*; T. E. WYE, *Latin*.

Officers of
Instruction
holding ap-
pointments
only in
Extension
Teaching

Columbia University in the City of New York

GENERAL STATEMENT

On October 31, 1754, Letters Patent were issued incorporating THE **Historical**¹ GOVERNORS OF THE COLLEGE OF THE PROVINCE OF NEW YORK IN THE CITY OF NEW YORK IN AMERICA and providing for the establishment of a College to be known as King's College "for the Instruction and Education of Youth in the Learned Languages and in the Liberal Arts and Sciences." The conclusion of the announcement issued in the same year reads: "A serious, virtuous, and industrious Course of Life being first provided for, it is further the Design of this College, to instruct and perfect the Youth in the learned Languages, and in the Arts of Reasoning exactly, of Writing correctly, and Speaking eloquently; And in the Arts of Numbering and Measuring, of Surveying and Navigation, of Geography and History, of Husbandry, Commerce, and Government; and in the Knowledge of all Nature in the Heavens above us, and in the Air, Water, and Earth around us, and the various Kinds of Meteors, Stones, Mines and Minerals, Plants and Animals, and of every Thing useful for the Comfort, the Convenience, and Elegance of Life, in the chief Manufactures relating to any of these things: And finally, to lead them from the Study of Nature, to the Knowledge of themselves, and of the God of Nature, and their Duty to Him, themselves, and one another; and every Thing that can contribute to their true Happiness, both here and hereafter." The educational work of the College was at once commenced under the presidency of Dr. Samuel Johnson with a class of eight students and the first Commencement was held on June 21, 1758. The first college building, erected on a portion of the "King's Farm," at what is now the corner of Park Place and Church Street was completed in 1760. The Revolutionary War, during which this building was taken for military purposes, compelled a suspension of activities. King's College numbers among its students and graduates Alexander Hamilton, John Jay, Robert R. Livingston, Gouverneur Morris and John Stevens.

In 1784, the Legislature of the State of New York passed an act incorporating the "REGENTS OF THE UNIVERSITY OF THE STATE OF NEW

¹ The attention of those interested in the historical development of the University is called to *The History of Columbia University, 1754-1904* (pp. xiii + 493), Columbia University Press, Lemcke and Buechner, New York, agents.

YORK," vesting the property of King's College in the Regents, and changing the name of the College to Columbia College. In 1787, this act was repealed, and an act was passed confirming the Royal Charter of 1754 and vesting the property and franchises of King's College in "The Trustees of Columbia College in the City of New York."

In 1810, the charter was again amended in certain particulars at the request of the Trustees, and re-enacted, but the corporate title remained the same until 1912 when by order of the Supreme Court of the State of New York it was changed to "The Trustees of Columbia University in the City of New York." In 1897 the University removed from its site at 49th Street and Madison Avenue to Morningside Heights.

Organiza- tion

The title to all corporate property is vested in a board of twenty-four Trustees, whose term of office is for life, and who form a self-perpetuating body, exercising the power of appointment as to all officers of instruction and administration and general oversight and control of the affairs of the University. In 1909 provision was made for the nomination by the Alumni of six of the twenty-four Trustees (see p. 472).

The PRESIDENT has charge of the educational administration of the University and is Chairman of the University Council and of every faculty established by the Trustees. The Treasurer of the corporation elected by the Trustees has charge of the financial administration of the University. The other principal administrative officers are the Deans, and Directors, who under the general supervision of the President have immediate charge of the Educational work of the University; the Provost of the University, the Librarian, the Chaplain, the Consulting Engineer, the Secretary of the University, the Registrar, the Bursar, and the Superintendent of Buildings and Grounds.

The UNIVERSITY COUNCIL (see p. 4) is a representative body consisting of the President, the Deans, certain other executive officers, and two members elected from each of the several faculties. Subject to the reserved power of control by the Trustees, it is the function of the Council (a) to control the award of the higher degrees, to secure the correlation of courses with a view to increasing the efficiency and enlarging the range of University work, to encourage original research, and to adjust all questions involving more than one faculty; (b) to make recommendations, both to the Trustees and to the several faculties, concerning the educational administration of the University, and to advise the President upon such matters as he may bring before it; (c) to appoint all Fellows and University Scholars and, within the limits of the Statutes, to make rules for their government (see page 435).

Schools and Colleges

COLUMBIA COLLEGE (see p. 193) offers a program of studies leading to the degrees of Bachelor of Arts and Bachelor of Science. Emphasis is placed upon the quality of the student's work rather than upon the time spent in residence, and this combined with the close co-ordination

of the work of the Summer Session and Extension Teaching with that of the College makes it possible for a well-prepared candidate to complete the requirements for the bachelor's degree in three years. The program provides not only for those students who wish to devote their entire time to undergraduate work, but for those who desire during their collegiate residence to prepare themselves for advanced standing in some professional course of study. As a preliminary to any professional courses the University strongly recommends at least two years of collegiate work, and candidates for professional degrees who are not already college graduates are advised to take advantage of the opportunities offered through Columbia College for a combination of general and professional studies which will lead to the bachelor's degree in arts or science, in addition to a professional degree in law, medicine, mining, engineering, chemistry, architecture, or teaching journalism, in six years.

BARNARD COLLEGE (see p. 339), founded in 1889, is a separate corporation and has separate buildings. As an undergraduate college for women, however, it bears the same relation to the educational system of Columbia University as does Columbia College for men. The requirements for admission and the standard of scholarship are of the same grade. The degree of Bachelor of Arts or Bachelor of Science is conferred upon its graduates by the University on the recommendation of the Faculty of Barnard College. (For the regulations governing candidates for an academic degree and a diploma in teaching, see p. 359.)

THE GRADUATE FACULTIES of the University offer advanced courses of study and investigation leading to appropriate degrees and certificates in (a) law, (b) medicine, (c) philosophy, education, philology, and letters, (d) history, economics and social science, and public law, (e) mathematics and natural science, (f) mines, engineering, and chemistry, (g) fine arts, and (h) pharmacy. Women students are admitted to all graduate courses except in law, medicine, mines, engineering, and chemistry.

The division of the University into faculties and schools neither controls nor limits the student in his freedom of electing, under one or several of the faculties, courses that lead to the degrees of Master of Arts and Doctor of Philosophy (see p. 186). Advanced courses and opportunities for original research leading primarily to these degrees are offered by:

THE FACULTY OF PHILOSOPHY (see p. 279), in philosophy, education, psychology, anthropology, classical philology, English, comparative literature, the Germanic, the Romance, and the Oriental languages;

THE FACULTY OF POLITICAL SCIENCE (see p. 278), in history, political philosophy, economics, social science, public law and comparative jurisprudence;

THE FACULTY OF PURE SCIENCE (see p. 280), in mathematics, astronomy, physics (mathematical and experimental), chemistry, mineralogy,

geology, zoölogy, botany, psychology, physiology, anatomy, bacteriology, embryology, biological chemistry, pathology, and engineering;

THE SCHOOL OF LAW (see p. 216), established in 1858, offers a course of three years in the principles and practice of private and public law, leading to the degree of Bachelor of Laws;

THE COLLEGE OF PHYSICIANS AND SURGEONS (see p. 230), founded in 1807, offers a course of four years in the principles and practice of medicine and surgery, leading to the degree of Doctor of Medicine;

THE SCHOOL OF MINES (see p. 247), founded in 1863, offers four-year courses of study in mining and metallurgical engineering, leading to a professional degree;

THE SCHOOLS OF ENGINEERING AND CHEMISTRY (see p. 247), set off from the School of Mines in 1896, offer four-year courses, leading to appropriate professional degrees in chemistry and chemical engineering and in civil, sanitary, electrical, and mechanical engineering.

THE FACULTY OF FINE ARTS (see p. 321) was organized in 1906 and given jurisdiction over the following schools: Architecture (founded as a department in 1880), Music (founded as a department in 1896), Design (1906); and offers courses of study of indeterminate length, leading to appropriate degrees and certificates in Architecture and Music, and, in co-operation with the National Academy of Design (see p. 321), to a certificate in Design;

THE SCHOOL OF JOURNALISM (see p. 332), founded in 1912 through the gift of the late Joseph Pulitzer, offers a four-year course of study in letters, science, and practical journalism leading to the degree of Bachelor of Literature;

TEACHERS COLLEGE (see p. 359), founded in 1888 and chartered in 1889, was included in the University in 1898. It is a separate corporation, but takes academic rank in the University system as a professional school for teachers. It offers through the Faculty of Education the following courses of study: (a) graduate courses leading to the doctor's or master's diploma; and simultaneously to the doctor's and master's degrees under the faculty of Philosophy; (b) professional courses, each of two years, based upon two years of collegiate study, leading to the bachelor's diploma for teachers and supervisors in kindergartens or elementary schools, or for specialists in fine arts, household arts, industrial arts, music, nurses education and physical education, and to the degree of Bachelor of Science in Education; and through the Faculty of Practical Arts a four year's program of study, based on a secondary school education, uniting liberal with technical training and leading to the degree of Bachelor of Science in Practical Arts. For changed courses see p. 360;

THE COLLEGE OF PHARMACY (see p. 396) is, similarly, a separate cor-

poration. It offers University courses leading to the degrees of Pharmaceutical Chemist and Doctor of Pharmacy. For changed courses see p. 360.

The University maintains a SUMMER SESSION (see p. 409), of six weeks' duration, in which are offered courses that are accepted in partial fulfilment of the requirements of certain academic degrees and of the diplomas.

Through its system of EXTENSION TEACHING (see p. 411), the University offers to men and women, especially to those engaged in teaching, who can give only a portion of their time to study, an opportunity to pursue subjects included in a liberal education and to make progress, if they so desire, toward a diploma in teaching or an academic degree.

The several Departments of Study maintained by the University, including Barnard College, Teachers College, and the College of Pharmacy, grouped in divisions, are as follows:

ANCIENT AND ORIENTAL LANGUAGES AND LITERATURES: Classical Philology, Chinese, Indo-Iranian, and Semitic Languages. **Departments and Divisions**

BIOLOGY: Anatomy, Bacteriology, Botany, Physiology, Pathology, Biological Chemistry, and Zoölogy.

CHEMISTRY: Chemistry.

EDUCATION (TEACHERS COLLEGE: Faculties of Education and Practical Arts).

ENGINEERING: Civil Engineering, Electrical Engineering, Highway Engineering, Mechanical Engineering and Engineering Drafting.

FINE ARTS (FACULTY OF FINE ARTS): Architecture, Fine Arts, and Music.

GEOLOGY, GEOGRAPHY, AND MINERALOGY: Geology, Geography, and Mineralogy.

HISTORY, ECONOMICS, AND PUBLIC LAW (FACULTY OF POLITICAL SCIENCE): Economics, Social Economy, Sociology and Statistics, History, and Politics, Public Law and Comparative Jurisprudence.

JOURNALISM: School of Journalism.

MATHEMATICAL AND PHYSICAL SCIENCE: Astronomy, Mathematics and Physics.

MEDICINE (COLLEGE OF PHYSICIANS AND SURGEONS).

METALLURGY AND MINING: Metallurgy and Mining.

MODERN LANGUAGES AND LITERATURES: English and Comparative Literature, Celtic, Germanic, and Romance Languages.

PHARMACY (COLLEGE OF PHARMACY).

PHILOSOPHY, PSYCHOLOGY, AND ANTHROPOLOGY: Anthropology, Philosophy, and Psychology.

PHYSICAL EDUCATION: Physical Education.

PRIVATE LAW (FACULTY OF LAW).

The Announcements of each College or School, of the Summer Session, of Extension Teaching, and of the several Divisions, may be obtained without charge from the Secretary of the University. **Announcements**

GENERAL REGULATIONS

**Status of
Students**

A student may enter Columbia University as either:

1. A matriculated student accepted by the University as having fulfilled the preliminary qualifications for candidacy for a degree, certificate of proficiency, or diploma. A period of regular attendance upon all stated academic exercises¹ amounting to at least one academic year must be completed by each candidate; or

2. A non-matriculated student, permitted to attend such courses as he may be qualified to take but not regarded as a candidate for a degree, certificate of proficiency or diploma. Non-matriculated students may, however, receive a formal statement as to the satisfactory completion of any course or courses.

In the announcement of each faculty will be found the conditions governing admission to courses under that faculty.

Under the Statutes every student is admitted subject to the disciplinary powers of the University authorities. The President is empowered to administer discipline and to authorize the Deans of the several faculties to do so on his behalf.

REGISTRATION

Before attending any University exercises each student must register, *i. e.*, must present himself in person to furnish the information necessary for the University records and to file a statement of the courses he is authorized to pursue (for the matriculation or registration fee, payable but once, see p. 47). The central office of the Registrar, 201 East Hall, and the offices at the College of Physicians and Surgeons, 437 West 59th Street, at the College of Pharmacy, 115 West 68th Street, and at Barnard College and Teachers College, will be open for registration on February 2 and 3, 1914, from September 16 to September 22, 1914, and on February 2 and 3, 1915. New students may also register on the day following each of these periods. Those unable to complete their registration may file a provisional statement within the statutory period. Students registering late are charged an additional fee of \$5 and are held accountable for absences thus incurred.

Students holding fellowships or scholarships are required to register not later than the date specified in the University calendar; failure to do so may be considered as vacating the fellowship or scholarship.

The requirements for graduation may be completed at any time during the year, but diplomas are issued only at commencement and at the beginning of each half-year.

¹ Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance, should make application to the appropriate University authority for equitable relief.

An honorable discharge is granted to any adult student in good standing who may desire to withdraw from the University; a minor must submit the written assent of his parent or guardian. Students withdrawing from the University are requested to notify the Registrar. No application for a return of fees can be considered unless written notice be given at the time of withdrawal. The Dean of any faculty may, for reasons of weight, grant a leave of absence to a student in good standing. **Withdrawal**

FEES

(Exclusive of Barnard College, Teachers College, and the College of Pharmacy.)

The regulations as to fees adopted by the Trustees of Columbia University in the City of New York are at present as follows. They are subject to change by them at their discretion. The President is under instructions to withdraw the privileges of students delinquent in payment after the second Wednesday of each half-year.

- (a) *For Matriculation or Registration:* Required of all students before entrance, payable but once.....\$ 5
For late Registration (see above)..... 5
For Change of Registration after the second Saturday (in the Schools of Political Science, Philosophy, and Pure Science after the fourth Saturday) of any half-year, for any course or courses added or dropped at any one time..... 1
- (b) *For Tuition*, payable at the beginning of each half-year:
For Matriculated Students:
 In the College, per point (see page 194)..... 5
 To be paid for the total number of points¹ for which the student is permitted to register; with extra charges for certain allowed professional courses, not to exceed \$50 in any half-year.
 In the School of Law.....per half-year 75
 In the College of Physicians and Surgeons....per half-year \$ 125
 In the Schools of Mines, Engineering, and Chemistry (exclusive of certain summer-course fees, see page 50) per half-year..... 125
 In the Schools of Fine Arts.....per half-year 75-100
 In Architecture the fees are at the rate of \$125 per half-year, except that a student who lacks less than 14 points for the degree or certificate is charged at the rate of \$7.50 per point. In Music the fees are at the rate of \$7.50 per half-year for each hour of attendance a week up to a maximum of \$75.

¹ A "point" is the equivalent of attendance one hour a week for one half-year in class-room exercises, or two hours a week for one half-year in laboratory exercises.

In the School of Journalism, per point, <i>i. e.</i> , unit-hour per half-year.....	5
Candidates for the degrees of Master of Arts and Doctor of Philosophy, exclusive of laboratory fees (see page 150) and of charges, not to exceed \$50, for certain professional courses, per full course \$20, per half-course \$10, per double course \$30—no candidate being permitted to register for less than one full course, or an equivalent—with a maximum per half-year of.....	75
With a minimum fee of \$150 for courses taken to fulfil the requirements for the degree of Master of Arts, and of \$300 ¹ for courses taken to fulfil the requirements for the degree of Doctor of Philosophy, irrespective of the aggregate number of courses attended.	
With a maximum fee—for courses aggregating, for the master's degree eight full courses, or an equivalent, for the doctor's degree sixteen full courses, or an equivalent—of \$150 and \$300, respectively, when the course does not exceed for the master's degree, four, and for the doctor's degree, six years.	
A candidate for the doctor's degree who has paid tuition fees amounting to \$300 and has taken sixteen full courses, or an equivalent, may attend courses without charge for two additional half-years prior to the expiration of six years from the beginning of his candidacy.	
<i>For Non-Matriculated Students</i> (and matriculated students taking part time).	
For Tuition, except in the Schools of Political Science, Philosophy and Pure Science, at the rate of \$7.50 per half-year for each hour of attendance per week on lectures or recitations, with a maximum fee, exclusive of charges, not to exceed \$50, for certain professional courses.....per half-year	75
With the following exceptions:	
In the School of Medicine and in the Schools of Mines, Engineering, and Chemistry, the maximum fee per half-year is \$125, in Columbia College and the School of Architecture \$100, and in the School of Journalism \$90. For other fees see page 50.	
For Tuition, for non-matriculated students in the Schools of	

¹ Unless, because of having passed at least one year in graduate study at an approved university, the candidate may be excused from attending a longer period than one year in Columbia University, in which case the minimum tuition fee is \$150.

Tuition fees paid by a candidate for A.M. will be credited toward the minimum and the maximum fee for Ph.D., provided there be no change in the choice of major and minor subjects.

Political Science, Philosophy and Pure Science, except in the Summer Session, \$25 per full course, \$15 per half-course, \$35 per double course, with a maximum fee per half-year..... 75
 For laboratory instruction, except in Columbia College—where it is charged for by points—\$7.50 per half-year for each two hours weekly, with a maximum of \$25 per half-year when the number of hours weekly of such instruction does not exceed nine, and \$40 per half-year when the number of hours weekly exceeds nine.

For Tuition in the Summer Session, except in the case of courses numbered above 100, for any course or courses aggregating not more than six points..... 30

For courses aggregating more than six points..... 35-40

In the case of courses numbered above 100, the fees are: \$20 per full course, \$10 per half-course, \$30 per double course, with a minimum of \$30 in any one Summer Session.

For Students in Extension Teaching, in courses, other than those numbered above 100, that may be taken for credit toward a degree or diploma, per half-year hour (two laboratory hours counting as one)..... 5

In the case of courses numbered above 100 the fees are: \$20 per full course, \$10 per half-course, \$30 per double course. For special fees in courses not so credited see the separately printed Announcement of Extension Teaching. Fees for courses in Extension Teaching to be paid irrespective of the privileges otherwise secured by the payment of a maximum half-year fee.

(c) *For Examinations, payable in each case before examination is held:*
 For the first examination or the first series of examinations for admission..... \$10

For any subsequent examination or series of examinations for admission..... \$5

Provided that the initial examination fee above prescribed shall be credited in lieu of the matriculation of the first registration fee whenever the candidate shall thereafter be admitted as a matriculated or a non-matriculated student, respectively.

For any deficiency examination or series of deficiency examinations held in the week preceding the opening of the first half-year, for each course..... 5
 with a maximum fee of..... 25

For a deficiency examination at any other time than in the period designated above, whether taken at the conclusion of a course repeated by the student in addition to his normal

schedule (except in Columbia College and the School of Journalism) or without such repetition, for each course....	5.
For special examinations at unusual times:	
For admission, for the series.....	5.
For removal of deficiencies in course, for each subject.....	5.
For the degree of Doctor of Philosophy.....	35.
(d) <i>For degrees, payable on or before the ultimate date fixed by the University calendar for the filing of applications for the respective degrees:</i>	
For the Bachelor's degree (not professional or technical).....	15.
For any professional or technical degree or certificate (including the degree of B.Litt. in the School of Journalism).....	25
For the Foreign Service Certificate.....	10.
For the Degree of Master of Arts.....	25.
(e) <i>For use of the Gymnasium and Baths, and the exclusive use of a locker, per year.....</i>	7.
<i>Required of all students except the following, who are exempt:</i>	
(1) Students in the Graduate Faculties, students in Medicine and Pharmacy, and those in other professional schools who hold an academic degree, and students in Extension Teaching, unless they shall elect to use the privileges of the Gymnasium;	
(2) Students who have paid this fee for four years, unless they shall elect to use the privileges of the Gymnasium;	
(3) Students presenting the certificate of the Director of the Gymnasium, showing actual physical disability.	
Summer Session, optional.....	\$ 5.

For the fees prescribed by the Trustees of Barnard College, Teachers College, and the College of Pharmacy, see the separately printed Announcements.

**Laboratory
and Special
Summer
Surveying
Mining and
Geology**

The Statutes provide that students taking laboratory or field courses or making use of the laboratories may be charged a fee therefor in accordance with a schedule prepared by the department concerned and on file in the Office of the Registrar.

Laboratory fees, payable on or before the last Saturday in May, are required as follows: Civil Engineering course No. 15, \$25, or \$7 per survey; No. 25 and No. 27, \$15, or \$3.50 per survey; No. 26, \$5; No. 28 and No. 71, \$10.

Non-candidates, candidates for admission to, and students having entered with, advanced standing, who may be required to attend these courses, and students who fail to complete them in the summer to which they are assigned, are charged in addition tuition fees as follows: No. 15, \$35; No. 25, No. 27, No. 28, and No. 71, \$25; No. 26, \$10. Students entering with credit for part of course 15 shall pay a tuition fee of \$10 for

each survey. A tuition fee of \$6 is required for each survey of courses 25 or 27 taken under similar conditions. In the case of a student registered in Columbia College who has paid an additional fee under the operation of this rule, an equitable credit will be made should he later complete the requirements for a professional degree provided he has taken the courses at the time prescribed in the curriculum. In the case of a student admitted to advanced standing the additional fee may be refunded in whole or in part, according to regulations which may be learned from the Registrar.

Candidates for admission to advanced standing who attend the Summer Course in Practical Mining are required to pay therefor a fee of \$50. All students attending the Summer Course in Geodesy must pay a fee of \$20 for the course.

A deposit for the use of lockers, keys, apparatus, material, and the like, ranging from \$1 to \$40, is required of students in Mines, Engineering, Chemistry, and Architecture. At the end of the year each student will be credited with those articles which he returns in good order, and the value of those he has injured or broken will be deducted from his deposit. Details may be obtained from the Bursar.

Deposits

BASED ON STUDENTS' STATEMENTS

Students' Expenses

	Low	Average	Liberal
Matriculation Fee (First Year).....	\$ 5	\$ 5	\$ 5
Tuition Fee ¹	150	150	150
Gymnasium Fee.....	7	7	7
Books.....	18	30	40 up
Incidentals.....	7	15	33 "
Residence Hall (39 weeks).....	100	128	180 "
Commons (39 weeks).....	150	191	236 "
Clothes and Washing.....	46	80	125 "
All other expenses.....	24	57	100 "
Total.....	\$507	\$663	\$876 up

Residence Halls and University Commons

(See page 56)

EMPLOYMENT FOR STUDENTS

The University endeavors to give students who need it the opportunity to earn enough for partial or complete support and to extend assistance

¹ For Medicine and Mines, Engineering and Chemistry, add \$100, and for Architecture add \$50. Students in Mines, Engineering, and Chemistry should also make provision for deposits for apparatus ranging from \$10 to \$40 and for Summer Courses.

in other ways. During the year 1911-12 the student earnings reported amounted to \$95,053.53.

Preference is naturally given, in case of a choice of applicants, to those who, as strangers in New York, are not likely to hear of positions through other channels. No prospective student should come to Columbia expecting to depend entirely or even largely upon the assistance of the University, and every student should be prepared to meet at least the expenses of the first half-year—say \$300.

The chiefs of clinic in the Medical School give advice without charge to students on the employment lists.

Malcolm M. Roy, A.B., 1909, is Secretary of Employment and all communications should be sent to him.

APPOINTMENT COMMITTEES

The duty of these committees is to assist competent graduates of the University to obtain suitable permanent employment.

The committees keep classified lists of those who wish employment and will be glad to be informed promptly of present or prospective vacancies in positions for which college-trained men or women are eligible.

No fees are charged for any service rendered by either committee.

Professor THOMAS, Chairman, Professors SELIGMAN, CATTELL, TODD, KIRCHWEY, WHEELER, and THORNDIKE (A. H.).

Communications in regard to vacancies and recommendations of suitable candidates for the same should be addressed to Malcolm M. Roy, Secretary of the committee.

Dean RUSSELL, Chairman; Professors KEMP, KILPATRICK, McMURRY, SMITH (D. E.), STRAYER, THORNDIKE (E. L.), and TRENT.

Communications should be addressed to the Chairman of the Committee, or to its Secretary, Professor William H. Kilpatrick.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

(See page 435)

RELATIONS BETWEEN THE UNIVERSITY AND OTHER INSTITUTIONS

The educational opportunities of students in Columbia University (including Barnard College, Teachers College, and the New York College of Pharmacy) are increased by the close relations of the University with other institutions of instruction and research.

**Roosevelt
and Kaiser
Wilhelm
Professor-
ships** The Theodore Roosevelt Professorship of American History and Institutions in the University of Berlin has been endowed by the gift of \$50,000 to the Trustees of Columbia University. Appointments are made annually with the sanction of the German Emperor by the Prussian Ministry of Education upon the nomination of Columbia University, but are not confined to members of this University. In successive years the

fields of American history, American constitutional and administrative law, American economic and sociological problems and movements, American education, and American contributions to science, technology, the arts and literature, will be dealt with. The instruction will be given in German in the University of Berlin during each winter semester, and may be repeated in whole or in part elsewhere during the ensuing semester.

The Prussian Ministry of Education has established in Columbia University a corresponding chair of German History and Institutions, to be filled each year by the Trustees of Columbia University upon the nomination of the Prussian Ministry of Education. To this chair the name of the Kaiser Wilhelm Professorship of German History and Institutions has been given, with the approval of the German Emperor (page 468)

By agreement with the Council of the University of Paris there has been established in Columbia University a new professorship to be known as the Visiting French Professorship. The appointment is made each year jointly by the Council of the University of Paris and the Trustees of the University. The Visiting French Professor is to be in residence at the University for three months during the first half-year and to conduct a seminar after the manner of the Conferences of the University of Paris. The French Ministry of Public Instruction sends each year in addition a lecturer to be in residence for the entire year (page 468)

**Visiting
French
Professor-
ship**

The American Museum of Natural History places its collection at the service of advanced students of Columbia University for the purposes of study and research, and provides them with the necessary facilities for work. The Director of the Museum is a member of the Faculty of Pure Science of the University.

**Museum of
Natural
History**

The agreement of February 5, 1906, between the University and the Academy makes provision for the closest relations between the two institutions in the development of the study of design in New York City (see page 321.) The President of the Academy is a member of the Faculty of Fine Arts, and the professors in the departments of painting, sculpture, and in the decorative arts are appointed upon the joint recommendation of the President of the University and the Council of the Academy.

**Academy of
Design**

The Metropolitan Museum of Art admits students of Columbia University on presentation of cards of introduction from the University, and gives them special facilities for the study of the objects in the Museum. The Director is a member of the Faculty of Fine Arts.

**Metro-
politan
Museum**

Columbia University has the privilege of conducting university courses in botany at the New York Botanical Garden and of using its laboratories and floral material, and all courses of instruction given there are open to officers and students of the University without charge. The Director is a member of the Faculty of Pure Science. For a description of the equipment of the Botanical Garden, see the statement of the Department of Botany (page 71).

**Botanical
Garden**

**Theological
Seminaries**

The Union Theological Seminary and the General Theological Seminary, both of which are represented in the University Council, admit students of high standing in the University to certain lectures in their regular or special courses without tuition fee. Libraries of the Seminaries, for reference, are open to all qualified students of the University. Reciprocal advantages are offered by the University to students of the Seminaries who are qualified to register as candidates for the higher degrees. The General Theological Seminary offers a scholarship to graduates of Columbia College.

The University also enjoys reciprocal arrangements with the other theological seminaries in the vicinity of New York—the Jewish Theological Seminary (New York), Drew Theological Seminary (Madison, N. J.), St. Joseph's Theological Seminary (Yonkers, N. Y.), the New Brunswick (N. J.) Theological Seminary, and the German Theological Seminary (Bloomfield, N. J.).

Hospitals

Besides the Vanderbilt Clinic and the Sloane Hospital for Women, the general and special hospitals of New York afford most important fields for clinical teaching. The College of Physicians and Surgeons is in close alliance with the Presbyterian Hospital (see page 232) and is strongly represented on the staff of many other institutions, and regular clinical instruction at hospitals is made a prominent feature of the program. In many of these hospitals the fourth-year students are admitted as clinical clerks to serve on the house staff.

The Director of the New York School of Philanthropy is a professor in the University, and the same reciprocal advantages for students exist as in the case of the Theological Seminaries.

**Other In-
stitutions**

There are close informal relations between the University and the Hispanic Society of America, the Rockefeller Institute of Medical Research, the New York Zoölogical Garden, the New York Aquarium, and the laboratories at Wood's Hole and Cold Spring Harbor. (For the Libraries of the city, see below.)

THE LIBRARY

The Library contains about 530,000 volumes, exclusive of unbound pamphlets and duplicates, and some 35,000 German dissertations.

Among the notable special collections may be mentioned the Columbiana, 3500 titles; the Phoenix Library, consisting of 7000 volumes, the gift of Stephen Whitney Phoenix, of the Class of 1859; the Avery Architectural Library, a collection of about 23,000 volumes relating to architecture and decorative art; the Mary Queen of Scots Library, containing 550 volumes, collected and given by General J. Watts de Peyster; the collection of over 1200 volumes by and about Goethe; the Immanuel Kant collection of nearly 1000 volumes; the valuable Townsend Library of National, State, and Individual War Records; the Garden Library, deposited by the Southern Society of New York; the valuable library of The Holland Society of

New York, 600 volumes, including the remarkable collection of works of Grotius; the philological library of the late Professor Mortimer Lamson Earle, given by his students and friends, consisting of some 2500 volumes; the library of Henry Livingston Thomas, late Chief Translator of the Department of State, Washington, given by his son, Dr. William S. Thomas, some 9000 volumes; the library of the American Mathematical Society, 1500 volumes; the musical library of Dr. James Pech, consisting of 8723 pieces; and a collection in contemporary German literature at the Deutsches Haus. The Library is also the depository for the Reform Club of the City of New York.

About 8000 carefully selected reference books and many of the most important works on all subjects, in standard editions, representing the leading authors in all literatures, are placed in the general reading-room directly accessible to all authorized readers. On the same floor, in the north wing, is the periodical reading-room, where are shelved about 4200 bound volumes of periodicals, and where the current numbers of about 327 periodicals are displayed.

Reading Rooms

For the convenience of undergraduates of Columbia College, there is in Hamilton Hall a College Study. Five thousand carefully selected volumes have been placed in this room, as a reference library.

Connected with the stacks in which are stored the books relating especially to Philosophy, Literature, the Languages, the Sociological and Economic Sciences and History, are twenty special study rooms, open only to authorized readers, thus affording advanced students and investigators in these fields the fullest opportunity to carry on their work in quiet rooms in the immediate vicinity of the literature of the subjects under consideration. The various Science departments have special libraries in close connection with their laboratories and lecture rooms.

The Law Library, the Bryson Library of Teachers College, which is the Educational Library of the University, and the carefully selected reference libraries of Barnard College, the College of Physicians and Surgeons, the College of Pharmacy and the Deutsches Haus, and the School of Journalism, are all available to officers and students of the University. Nearly all of the more private or restricted libraries of the city, such as those of the learned societies, are open to officers and to advanced students introduced by the Librarian of the University.

The general catalogue of the libraries of the University is a record of all books in the possession of the University. In addition to this there are catalogues of department libraries located in department reading-rooms, and a union catalogue which is a record, by authors only, of books not possessed by the University which may be found in the Library of Congress, John Crerar Library, Harvard University, and other libraries. The catalogue of the New York Public Library in the Library building,

Catalogues

42nd St. and 5th Avenue, may also be consulted, especially for references to articles in magazines not indexed in the published indexes to periodicals.

Use All officers, students, and graduates of the University have free access to the Library and may draw books for home use. For further information, consult the *Reader's Manual*.

Officers of New York University, of the College of the City of New York, of the Normal College, of the Metropolitan Museum of Art, of the American Museum of Natural History and principals and heads of departments of the New York High Schools are granted the same Library privileges as are extended to graduates of Columbia University.

Persons of mature years desiring to engage in definite research which cannot be successfully conducted in the public or other libraries of this city will be given the privilege of using this library in the building, upon filing a satisfactory application, responsibly endorsed. Blank applications will be furnished by the Librarian on request.

The Library is open each week-day (except Labor Day, Thanksgiving, Christmas, New Year's Day, Good Friday, and Independence Day) from 8.30 A.M. until 11 P.M., October-June; and until 10 P.M., July-September.

Book Store A University bookstore is maintained under the auspices of the Columbia University Press, where officers and students may purchase books and stationery at stated discounts from list prices.

THE GYMNASIUM

(See page 152)

UNIVERSITY COMMONS

The University Commons, in University Hall, is operated under University management for the benefit of officers and students. The service is *à la carte*, or regular board may be secured for \$6 a week.

RESIDENCE HALLS

For Men There are three University dormitories on South Field, with accommodations for approximately 820 men: Hartley Hall, a memorial to the late Marcellus Hartley, Livingston Hall, named in memory of Robert R. Livingston, of the Class of 1765, and Furnald Hall provided for in the will of the late Francis P. Furnald, in memory of his son, Royal Blackler Furnald, a member of the Class of 1901. Each building is 10 stories in height with electric passenger elevators, and 137 feet long by 64 feet wide. They are lighted throughout by electricity and heated by steam.

Hartley and Livingston each contain 300 rooms, all rooms are nine feet high, the average size of the bedrooms being 8 by 12.6 and of the studies 10 by 14.6. Furnald contains 294 rooms, the average size of the bedrooms being 9 by 14.9 and of the studies 11.6 by 13.6. The arrangement permits of flexibility in renting rooms in suites. Each bedroom

has a clothes-closet and an enamelled basin with hot and cold water, and is provided with heavy oak furniture. There are four shower-baths on each floor. Rentals range from \$100 for single rooms to \$390 for three-room suites for the academic year. The entrance to each building from the campus leads directly into an assembly room 60 feet square with a large open fireplace.

The Residence Halls are supervised and controlled by a Council composed of the Consulting Engineer, two University officers, and a representative from each hall. The Council is assisted by two Committees made up of residents in the Halls.

While the Halls are open to all male students of the University, students in Columbia College, in accordance with the desire of the donors, Mrs. Helen Hartley Jenkins and Marcellus Hartley Dodge, '03, are given the preference in the assignment of rooms in Hartley Hall.

The average weekly charge for a single room is \$3.30, or \$129 for the academic year of thirty-nine weeks. A pamphlet containing floor-plans, charges, and the Hall Regulations may be had upon application to the Secretary of the University. Rooms will be assigned in the order of receipt of written applications to be made on a blank provided by the Superintendent of Buildings and Grounds.

Brooks Hall, the hall of residence for Barnard College students, on the north side of 116th Street, accommodates 90 students. Full information in regard to the situation and cost of rooms, the advance deposit, the charge for electric light, and the residence scholarship is published in a separate pamphlet, to be had on application to the Secretary of Barnard College, or to the Mistress of Brooks Hall, Barnard College, New York City. **For Women**

Whittier Hall, the dormitory building of Teachers College, is situated on Amsterdam Avenue, between 120th and 121st Streets, and has accommodations for 350 women. Inquiries regarding rooms, board, and the like, should be addressed to the House Director of Whittier Hall, 1230 Amsterdam Avenue.

Besides these dormitories, there are many good boarding-houses and apartments near the University. The careful selection, inspection, and registration of such lodgings have been undertaken, and a card-catalogue is kept at Earl Hall. Many of the Greek-letter fraternities, a list of which will be found on page 59, maintain chapter houses near the University.

**Other
Accommo-
dations**

PUBLIC WORSHIP AND RELIGIOUS WORK

St. Paul's Chapel, dedicated February 3, 1907, was the gift of Olivia Egleston Phelps Stokes and Caroline Phelps Stokes as a memorial to their parents. The Chapel is in the form of a cross, the greatest length being 122 feet and the width at the transepts 77 feet, and has 1050 sittings.

Service, at which attendance is voluntary, is held every week-day, ex-

cept Saturday and Wednesday, at noon, the period from 12 to 12.30 being set aside by the University Council for religious exercises. On Wednesday there is a vesper service at 5.10. Service on Sunday is at 4 o'clock. Organ recitals are also frequently given.

Barnard College twice a week and Teachers College daily hold separate services in their respective chapels.

EARL HALL

Earl Hall, the home of the religious, philanthropic, and social organizations and interests of the University, is open from 8.30 A.M. to 10 P.M. daily, to all students without expense, under the direct management of the Secretary of Earl Hall, who is also Secretary of the University Young Men's Christian Association.

The building may not be used for distinctly dogmatic or denominational religious teaching, but all organizations, the objects of which are to promote the religious and philanthropic life of their student members and of the student body at large, have the privilege of using it for their meetings. While the social purposes of the Hall are necessarily subordinated to the other uses of the building, the Secretary desires to promote the same type of informal personal and social intercourse that prevails in a good club.

Provision for the regular meetings of student organizations is made on a day-and-hour schedule, without exclusive use of any of the rooms in the following order: societies the purpose of which is (1) primarily religious; (2) primarily philanthropic; (3) primarily literary; and (4) miscellaneous student organizations.

MEDICAL ATTENDANCE

The University Health and Sanitary Officer, Dr. McCastline, will have direct supervision of all matters affecting the health of the student body. All cases of communicable disease occurring in homes of students must be promptly reported to him.

As University physician Dr. McCastline will hold office hours daily in Earl Hall for consultation with the students.

For those who are without local family physicians there is a Medical Visitor (Dr. D. S. D. Jessup, 601 W. 113th St.) whose duties are to render medical assistance to such officers and students as may desire it, either at their homes or elsewhere, at a remuneration to be arranged between himself and individual patients.

STUDENT ORGANIZATIONS

The various student organizations, while self-governing, are subject to the following regulations: The schedules of public contests and performances must be approved by a University Committee (see page 8); budgets for expenditure are approved and checked by the Comptroller

of Student Organizations; the University Committee on Athletics, consisting of three graduates, two students, and two University officers, adopt and administer rules of eligibility not involving questions of scholarship and govern participation in intercollegiate athletics. Provision is made for the election each year by the student body at large of a Board of Student Representatives. The constitution of this board will be found in the pamphlet on Student Organizations, which may be obtained from the Secretary of the University. The members for the current year are:

C. F. McCarthy, '14S, *Chairman*; L. D. Egbert, '14; A. L. Graham, '14; D. L. Meenan, Jr., '14; J. S. O'Neale, Jr., '14; F. H. Phipps, '14; F. J. Porter, '14L; A. C. Rathwell, '14; E. G. Williams, '14S.

The following Greek-letter fraternities, given in the order of their establishment, maintain chapters at Columbia University:

Alpha Delta Phi; Psi Upsilon; Delta Phi; Delta Psi; Phi Kappa Sigma; Phi Gamma Delta; Phi Kappa Psi; Delta Kappa Epsilon; Zeta Psi; Beta Theta Pi; Delta Tau Delta; Theta Delta Chi; Phi Delta Theta; Delta Upsilon; Sigma Chi; Sigma Alpha Epsilon; Phi Sigma Kappa; Theta Xi; Alpha Chi Rho; Phi Epsilon Pi; Sigma Nu; Alpha Sigma Phi; Zeta Beta Tau.

DIVISIONAL AND DEPARTMENTAL STATEMENTS

INTRODUCTORY

The courses of instruction are numbered in accordance with a plan uniform throughout the University, and attention is called to the following information which the number assigned to a course will in each case indicate:

Odd numbers indicate the first, even numbers the second half of the academic year. Courses designated 1-2, 21-22, etc., run through both half-years; courses designated 1-4, 5-8, etc., run through two complete academic years. Courses numbered between 1 and 100 are, in general, elementary and may not be offered in fulfilment of the requirements for the higher degrees (A.M. and Ph.D.). Courses numbered from 101-200 are primarily for students who hold a first degree but are open to undergraduates who have completed 64 points (for courses in law 94 points), including all prescribed work. In general, no such course may be taken without some elementary training in the same or in some allied subject. Courses from 201-300 are restricted to such graduate students as are qualified to pursue the work to advantage. Seminars are numbered from 301 up. Attention is called to the *Announcement of the Faculties of Political Science, Philosophy, and Pure Science*, and particularly to the fact that the requirements for the higher degrees are based upon subjects and not upon courses. Students should consult the officers of instruction and administration concerned with regard to their selection of courses before registration.

Courses enclosed in brackets are not offered during 1913-14, and any other course not applied for by at least three candidates for a degree may be withdrawn by the instructor.

Any subject of study not appearing in its alphabetical order may be found through the index.

With the exception of the courses in mines, engineering, chemistry, medicine, and law, all courses numbered over 101 are open to women upon the same terms as to men, unless specific statement is made to the contrary.

Unless otherwise stated, the number of hours given indicates the hours of class-room work (lectures, conferences, and recitations) per week. When a course involves both class-room work and laboratory or drafting-room work, the former will be indicated by *C* and the latter by *L* and *D*, respectively. In courses in medicine, *D* indicates demonstrations. An "afternoon" implies three hours a day, normally from 1:00 to 4:00.

Students should note the distinction between a department and a school. For instance, there is in the University both a Department of Archi-

ture and a School of Architecture; Departments of Civil, Electrical, and Mechanical Engineering and a School of Engineering. The Departmental Statements which follow have to do only with the giving of the instruction and the opportunities for research in each special branch of study. The information as to the conditions of admission to the courses, and the academic credit to be received therefor, will be found under the information relating to Colleges and Schools, pages 193, *et seq.*, and in the separately printed *Announcements*.

For the courses to be offered in fulfilment of the requirements for the degrees of Bachelor of Arts or Bachelor of Science, see page 194; Bachelor of Laws, see page 219; Doctor of Medicine, see page 238; for the several degrees in mining, engineering, and chemistry, see pages 252-261; and for Fine Arts—architecture, music, and design—see pages 324 and 327.

It is not possible, within the limits of this volume, to give more than the briefest outline of the courses. In some of the *Bulletins of Information* published by the University, and distributed without charge upon application to the Secretary, a detailed statement will be found of the scope of each course, the manner of treatment, the courses prerequisite, and the like. A list of the *Bulletins* will be found on page 476.

AGRICULTURE

Professor: MORGAN (O. S.)

1-2—Principles of Agriculture. 3 hours. Professor O. S. MORGAN

s1—Agriculture. Field Crops. Lectures and laboratory. 3 points. **Summer**
Professor MORGAN

s2—Agriculture. Forage and Root Crops. Lectures and demonstrations. 2 points. Professor MORGAN

s3—Agriculture. Soil Management. 3 points. Mr. LAKE

s5—Agriculture. Horticulture. Lecture and laboratory. 3 points.
Mr. FRASER

s7—Agriculture. Animal Husbandry. Lecture and laboratory. 3 points. Mr. BOWES

er-2—Agriculture. Field Crops. Lectures and laboratory. 3 hours. **Extension**
Professor MORGAN

e1a-2a—Agriculture. Field Crops. Lectures and demonstrations. 2 points. Professor MORGAN

e3-4—Agriculture. Soils and Fertilizers. Lectures and laboratory. 3 hours. Mr. LAKE

e5-6—Agriculture. Horticulture. Lectures and laboratory. 3 hours.
Mr. FRASER

e7-8—Agriculture. Animal Husbandry. Lectures and laboratory. 3 hours. Mr. BOWES

e9-10—Agriculture. Poultry Husbandry. Lectures and laboratory. 3 hours. Mr. CLARK

ANATOMY

Professor: HUNTINGTON (*Executive Officer*)

Associate Professor: SCHULTE

Assistant Professors: GALLAUDET and MILLER

Associate: TILNEY

Instructors: BROWN (A. J.), DERBY, ST. JOHN, SHARP, STRONG, and VAUGHAN

Courses 101, 103-104, 105, 107, 202, 204, 206, 208, 210, 212, 251-252, and 302 are open to qualified candidates for the degree of A.M. or Ph.D. The demands on laboratory space and teaching force render it necessary to limit the number of students admitted to these courses.

101—Histology and embryology. 12 hours. Professors SCHULTE and MILLER, and Drs. STRONG and SHARP

103-104—Anatomy of the extremities; preliminary visceral anatomy. 12 hours. Drs. BROWN and VAUGHAN

105—Anatomy of head and central nervous system; abdomen and thorax. 12 hours. Drs. TILNEY, STRONG, and ST. JOHN

107—Vertebrate morphology. 3 hours. Professor HUNTINGTON

109—Anatomy of the mouth, larynx, and pharynx. 3 hours. Professor GALLAUDET

111—Anatomy of the eye. 3 hours. Professor GALLAUDET

113—Anatomy of auditory apparatus. 3 hours. Professor GALLAUDET

114—Topographical anatomy of the thorax. 3 hours. Professor GALLAUDET

116—Topographical anatomy of the abdomen. 3 hours. Professor GALLAUDET

118—Topographical anatomy of the male and female genito-urinary tract. 3 hours. Professor GALLAUDET

120—Regional anatomy of the head and neck. 3 hours. Professor GALLAUDET

202—Morphology of the heart and vascular system. 3 hours. Professors HUNTINGTON, SCHULTE, and staff

204—Morphology of the genito-urinary system. 3 hours. Professors HUNTINGTON, SCHULTE, and staff

206—Morphology of the respiratory tract. 3 hours. Professors HUNTINGTON, SCHULTE, and staff

208—Morphology of the alimentary canal. 3 hours. Professors HUNTINGTON, SCHULTE, and staff

210—Morphology of the nervous system. 3 hours. Dr. TILNEY

212—Histology of the alimentary canal and its derivatives. 3 hours. Professors SCHULTE and MILLER, and Dr. SHARP

251-252—Research in anatomy. Professor HUNTINGTON, and staff

302—Seminar in histology and embryology. 1 hour. Professor SCHULTE

The laboratory facilities of the department are very complete. The large general dissecting-room accommodates from 390 to 546 students, working in groups of five or seven at one table. **Equipment**

The laboratory for advanced morphological research occupies the third story of the anatomical building. Every facility for advanced and research work in morphology is here extended. The established connections of the department furnish abundant human and comparative material, both mature and embryonal. The private library of the Professor of Anatomy is at the disposal of advanced workers.

Much work has been done in the formation of a Museum of Human and Comparative Anatomy, the ultimate design of which is to present, in as complete a manner as possible, a view of the evolution of the forms of animal life, and of their natural relations both in series of natural groups and in the comparative and relative positions of organs and systems. The collection, both as regards groups and the individual preparations, is designed for the illustration of both elementary and advanced courses. **Museum**

The second floor of the anatomical building has been furnished throughout with suitable exhibition and demonstration stands. It is the intention of the department to install in this space the portion of the collection most used in the medical courses, thus establishing an undergraduate teaching museum which will both increase the efficiency of the sectional demonstrations and render the material upon which they are based available at all times for study and research.

A study-collection of human osteological preparations is so administered as to enable every student to take out the different osteological series and retain them for private study as long as required.

ANTHROPOLOGY

Professors: BOAS (*Executive Officer*), FARRAND, and SAVILLE

Lecturer: GOLDENWEISER

See introductory paragraphs, page 60

1-2—General introductory course. 3 hours. First half-year, Professor FARRAND; second half-year, Professor BOAS

104—Prehistoric archaeology. 2 hours. Professor SAVILLE

105-106—Ethnology—Primitive culture. 2 hours. Professor FARRAND

107-108—Ethnography of America and Siberia. 2 hours. Professor BOAS

[109-110—Ethnography of Africa and Polynesia. Professor BOAS]

[111-112—Ethnography of Europe. 2 hours. Professor BOAS]

115-116—Mexican archaeology. 2 hours. Professor SAVILLE

117-118—Archaeology of northwestern South America. 2 hours. Professor SAVILLE

121-122—Anthropometry. C 2 hours. Professor BOAS

127-128—American languages—Introductory course. 2 hours. Professor BOAS

129-130—American languages—Advanced course. 2 hours. Professor BOAS

131-132—Primitive social organization and primitive religion. 2 hours. Dr. GOLDENWEISER

203-204—Research work in anthropology. Professors BOAS, FARRAND, and SAVILLE

301-302—Seminar in ethnology. 2 hours bi-weekly. Professor BOAS
The collections of the American Museum of Natural History may be used by students of anthropology.

Summer

SI—General introduction. 2 points. Professor BOAS

SI02—Problems and methods. 2 points. Professor BOAS

ARCHITECTURE

Director: LORD (A. W.)

Professors: HAMLIN (A. D. F.), and SHERMAN (F. D.)

Assistant Professors: HARRIMAN and WARREN

Associates: PRÉVOT, WARE

Curator: BACH

Lecturer: FORD

See introductory paragraphs, page 60

Unless otherwise indicated, all courses in this outline numbered below 100 are prescribed. Those which may be chosen as electives are marked with (*).

1-2—The elements of architecture. 1 hour lecture and work in drafting room. The orders and their applications. Professor HARRIMAN

5—Shades and shadows. C 3 hours, D 2 hours. Professor SHERMAN

6—Descriptive geometry. C 5 hours, D 4 hours, 24 plates required. Professor SHERMAN

7—Perspective. C 2 hours, D 2 hours. Professor SHERMAN

8—Stereotomy. C 1 hour, D 2 hours. Professor SHERMAN

13-14—Building materials. C 2 hours. Professor WARREN

15-16—Structural design. C 2 hours, D 6 hours in alternate weeks. Professor WARREN

21-22—Ancient and medieval architecture. 1 hour lecture. Curator BACH

23-24—Renaissance, modern and oriental architecture. 1 hour lecture. Professor HAMLIN

31-32—History of ancient ornament. 1 hour lecture, with exercises. Professor HAMLIN

33-34—History of medieval ornament. 1 hour lecture with exercises in decorative design. Professor HAMLIN

35-36—Modern ornament. 1 hour lecture with exercises in decorative design. Professor HAMLIN

41-42—Theory and processes of decorative arts. 1 hour lecture. Curator BACH

51 to 58—Theory of architecture. 1 hour lecture throughout four years. The abstract principles governing architectural composition. Professor LORD

61-62—Elementary design. Major and minor problems, second year. Professor LORD, Mr. PRÉVOT, Mr. WARE

63-64—Intermediate design. Major and minor problems, third year. Professor LORD, Mr. PRÉVOT, Mr. WARE

65-66—Advanced design. Major and minor problems, and a final or thesis problem, fourth year. Professor LORD, Mr. PRÉVOT, Mr. WARE

71 to 78—Drawing. 4 hours weekly throughout four years. Freehand drawing and water colors from the cast, still-life and living model. Professor HARRIMAN. Life drawing under Mr. COX of Teachers College

*72a, 74a, 76a—Summer work. Sketches, essays or office work during vacation following the first, second and third year of attendance. Curator BACH

81-82—Civic design. 2 hours lectures. Stated lectures, reports, problems, and special investigations in city planning. Mr. FORD

115-116—Advanced construction. Problems in structural design, with accompanying details and specifications.

*121-122—Ancient architecture. 2 hours lectures. Professor HAMLIN

*122a—Ancient research. 12 to 15 hours in library and drafting-room for five weeks of second half-year, or 4 to 5 hours throughout the year. Professor HAMLIN and Curator BACH

*123-124—Medieval architecture. 2 hours lectures. Professor HAMLIN

*124a—Medieval research. 12 to 15 hours in library and drafting-room for five weeks of second half-year, or 4 to 5 throughout the year. Professor HAMLIN and Curator BACH

*125-126—Renaissance and modern architecture. 2 hours. Professor HAMLIN

*126a—Modern research. 12 to 15 hours in library and drafting-room for five weeks of second half-year, or 4 to 5 hours throughout the year. Professor HAMLIN and Curator BACH

128a—Graduate research.

Four essays upon subjects selected by the student and approved by the Professor of the History of Architecture, involving original research and study in the library and the Metropolitan Museum of Art, to the extent approximately 10 hours per week through the year.

Counted as two full courses towards the higher degrees and may be taken as a minor therefor.

161-162—Graduate design. Major and minor problems. Professor LORD, Mr. PRÉVOT, Mr. WARE

- Summer** sF—Freehand drawing. 3 hours lectures and 15 hours drafting-room work per week. 2 points. Mr. INGLE
 s1—Elements of architecture. Study of the five orders. 3 hours lectures and 18 hours drafting-room work. 3 points. Professor HARRIMAN
 s2—Applied elements. 1 hour lecture and 20 hours drafting per week. 3 points. Professor HARRIMAN
 s5—Shades and shadows. 8 hours lectures and 6 hours drafting per week. 3 points. Mr. INGLE
 s7—Perspective. 6 hours lectures and 6 hours drafting-room work per week. 3 points. Mr. INGLE
 s61-62—Elementary design. Major and minor problems. Mr. WARE

- Extension** es71—Drawing (evening class). Professor HARRIMAN
 eW1—Freehand drawing. Mr. BEANS
 eX1-X2—Elements and applications of algebra, geometry, and trigonometry. Mr. FRAZEE
 eZ1-Z2—Mechanics applied to construction. 2 points. Professor BURNSIDE
 e1—The elements of architecture. 2 points. Professor HARRIMAN and Mr. FLANAGAN
 e2—Applied elements. 2 points. Professor HARRIMAN
 e5—Shades and shadows. 4 points. Professor SHERMAN
 e6—Perspective. 4 points. Professor SHERMAN
 e9-10—Descriptive Geometry. 4 points. Professor SHERMAN
 e13-14—Building materials. 2 points each half-year. Mr. POND
 e15-16—Structural design. 2 points each half-year. Mr. POND
 e21-22—Ancient and medieval architecture. 1 point each half-year. Curator BACH
 e23-24—Renaissance, modern and oriental architecture. 1 point each half-year. Curator BACH
 e31-32—History of ancient ornament. 1 point each half-year. Curator BACH
 e61-62—Elementary design. 15 hours. Mr. PRÉVOT and Mr. WARE
 e63-64—Intermediate design. 15 hours. Mr. PRÉVOT and Mr. WARE
 e65-66—Advanced design. 20 hours. Mr. PRÉVOT and Mr. WARE

ASTRONOMY

Professor: JACOBY

Associate: BOWIE

- 1-2—General astronomy—Introductory course. 2 hours, and fortnightly evening attendance in the Wilde Observatory. Professor JACOBY
 103-104—Spherical and practical astronomy—A more mathematical

treatment, including practical use of instruments. 2 hours, and 2 hours observatory. Professor JACOBY

105—Geodesy—Brief history of geodetic operations and description of instruments, including their adjustment and use. 3 hours. Professor JACOBY

106—Geodesy and practical astronomy. 1 hour and 3 hours laboratory. Professor JACOBY and Assistant

107—Geodesy—Summer course in practical geodesy. Five weeks of practical work in the field. Professors JACOBY and Mr. BOWIE with Assistants

205-206—Reduction of photographic star plates. 1 hour, with practical work, for two years. Professor JACOBY

The Wilde Observatory contains an equatorial telescope, with clock-work and accessories. The University has also a very complete collection of instruments for the application of astronomy to geodesy, including a Bamberg universal combined prismatic transit and zenith telescope of 4-inch aperture; a Wanschaff zenith telescope of 8-cm. aperture, suitable for latitude measures of the highest precision; two Wanschaff 8-inch microscope theodolites; two Fauth 8- and 10-inch microscope theodolites; secondary bar base and tape base apparatus, with stretching machines; complete outfit of engineer's instruments, sextants, apparatus for barometric hypsometry, clocks, chronometers, electric chronographs, etc.; five computing machines. **Equipment**

For the advanced study of astronomy proper, there are special facilities including two Repsold measuring machines of the latest type and a large collection of original astronomical photographs suitable for measurement and reduction. These photographs were made by Gill at the Cape of Good Hope, Rutherford at New York, Donner at Helsingfors, Henry at Paris, Campbell at Mt. Hamilton, etc. Funds are provided for the publication of researches in astronomical photography. (See University Bibliography.)

In addition, there are a number of unmounted instruments, including Lewis Morris Rutherford's famous 13-inch equatorial, with its attachments.

The University Library is especially strong in astronomy. Among other important collections, it contains the private library of the late Dr. Otto Struve, formerly director of the Pulkowa Observatory. There is also a good working library in the department.

BACTERIOLOGY

Professor: ZINSSER (*Executive Officer*)

Associate: HOPKINS

Instructor: DWYER AND OTTENBERG

Teaching Fellow: BLISS

Close association is maintained between this department and the Departments of Pathology and Clinical Pathology, so as to facilitate instruction and research in these closely allied subjects.

Courses 201, 203, 205-206, 208, and 251-252 are open to candidates for the degree of A.M. or Ph.D. Courses 205-206, 208, and 251-252 are open to graduates in medicine.

101—General bacteriology. 6 hours. Professor ZINSSER, Drs. HOPKINS and DWYER

201—Advanced bacteriology. 18 hours. Professor ZINSSER and Drs. HOPKINS and DWYER

203—Special bacteriology. The study of known species of bacteria and their chemical products, and original investigation. Professor ZINSSER

205-206—The principles of infection, immunity, serum diagnosis, and therapy. 1 hour. Professor ZINSSER, Drs. HOPKINS and OTTENBERG

208—A practical laboratory course in the technique of serum study. 6 hours. Professor ZINSSER and HOPKINS

251-252—Research in bacteriology. Professor ZINSSER, and staff

Summer 5101—General bacteriology. 10 hours. Dr. DWYER

Equipment The department of bacteriology occupies the western section of the fifth floor of the north building of the College. It comprises a large laboratory for the accommodation of the undergraduate and advanced classes in bacteriology, a research laboratory for special advanced workers, and rooms equipped for the preparation of culture media and for the chemical study of bacterial products. The laboratories are well supplied with all necessary apparatus for the culture and study of microorganisms and with cold storage facilities. A large collection of identified bacterial species is kept under cultivation.

BIOLOGICAL CHEMISTRY

Professor: GIES (*Executive Officer*)

Assistant Professor: HOWE

Associates: EDDY, LOTHROP, MOSENTHAL

Instructors: GOODRIDGE, MORGULIS and SEAMAN (Teachers College)

Assistants: HARKEY (Teachers College), KNUDSON, PERLZWEIG and WICKWIRE (Teachers College)

All courses not otherwise specified are given at the College of Physicians and Surgeons.

See introductory paragraphs, page 60

51—Elementary organic chemistry. Introductory to Course **101** or **102**. **Organic Chemistry**
C, D, R 2 hours, *L* 6 hours, each section (2). Professors GIES and HOWE,
 Dr. LOTHROP and Messrs. KNUDSON and PERLZWEIG

61-62—Chemistry of nutrition. *L* 1 hour. Professor GIES **Nutrition**

101 or **102**—General biological (physiological) chemistry. A course in the elements of normal nutrition. Full course.

102—Nutrition (physiological chemistry) **52**. *C, R, D* 2 hours, *L* 6 hours, each section (2). Professors GIES and HOWE, Dr. LOTHROP and Messrs. KNUDSON and PERLZWEIG

101—Biological chemistry **101**. *C, R* 1 hour, *L* 7 hours. Professor HOWE, Dr. EDDY and Messrs. KNUDSON and PERLZWEIG

School of Practical Arts **101** or **102**—"Chemistry **51**" and "Household Arts Education **125**." *C* 2 hours, *R* 1 hour, each section (2), *L* 5 hours, each section (2). Professor GIES, Dr. SEAMAN and Misses WICKWIRE and HARKEY

201-202—Advanced physiological chemistry, including methods of research in nutrition. Full course. *C* 1 hour, *L* 7 hours. Dr. SEAMAN and Miss HARKEY

204—General pathological chemistry. Lectures on nutrition in disease. *C* 1 hour. Professor GIES

211-212—Biochemical methods of research, including clinical methods and urinary analysis in general. Full course. *C* 1 hour, *L* 7 hours. Professors GIES and HOWE, Dr. EDDY and Messrs. KNUDSON and PERLZWEIG

(213-214)—Biochemistry of carbohydrates, lipins, proteins and enzymes. Full course. *C* 1 hour, *L* 7 hours. Professor GIES

221-222—Nutrition in health. A laboratory course in advanced physiological chemistry. Double course. *C* 2 hours, *L* 14 hours. Professors GIES and HOWE and Dr. MORGULIS

223-224—Nutrition in disease. A laboratory course in advanced pathological chemistry. Double course. *C* 2 hours, *L* 4 hours. Professor GIES

225-226—Nutrition in disease. *C* 1 hour. Professors GIES and HOWE and Drs. MOSENTHAL and GOODRIDGE

251-252—Advanced physiological and pathological chemistry, including all phases of nutrition. Double course. Research. *C* 1 hour (individual students). *L* 16 hours. Professors GIES and HOWE and Dr. LOTHROP

- Toxicology** 261-262—Effects and detection of poisons, including food preservatives and adulterants. (Full course. Medical School.) *L* 6 hours. Professor GIES
- Botany** 271-272—Chemical physiology of plants. (Full course. The course may be taken in whole or part at the New York Botanical Garden.) *C* 1 hour, *L* 7 hours. Professor GIES
- Bacteriology** (281-282)—Chemistry of microorganisms: fermentations, putrefactions and the behavior of enzymes. An introduction to sanitary chemistry. (Full course. Medical School.) *C* 1 hour, *L* 7 hours. Professor GIES
- Sanitation** 291—Sanitary chemistry. (Half course. Teachers College, School of Practical Arts.) *C* 1 hour, *L* 3 hours. Dr. SEAMAN and Miss HARKEY. (This course is designated "Chemistry 57" and "Household Arts Education 129" in the *Teachers College Announcement*.)
- Biochemical Seminar** 301-302—The members of the teaching staff, Ph.D. candidates, and all other investigators in the department meet weekly to discuss results of recent researches in chemical biology. The seminar is open to all students in the University. 2 hours. Professor GIES
- Research** Biochemical research may be conducted by advanced workers, independently or under guidance. Professor GIES consults regularly with investigators in the departmental laboratories; also in the laboratory of pathological chemistry of Bellevue Hospital and at the N. Y. Botanical Garden.
- Summer** s101—General physiological chemistry (normal nutrition). 3 points. Professor GIES and MESSRS. PERLZWEIG and LEVINE
 s102—General physiological chemistry (normal nutrition). (Teachers College, Household Arts, S-H. A. 25.) 3 points. Professor GIES, Dr. SEAMAN and Miss HARKEY
 s225—Nutrition in health and disease. Professor GIES
 s251—Research. Professor GIES
- Library** Professor GIES's library occupies a room adjoining the main laboratory at the medical school and is accessible, by appointment, to all workers in the Department. The library contains 2600 volumes and 7000 classified separates.
- Equipment** The headquarters of the Department of Biological Chemistry are at the College of Physicians and Surgeons, where eight rooms are well equipped for experimental work. Two of the rooms will each accom-

moderate about seventy workers at a time. Five smaller rooms are specially fitted up for experimental investigations by advanced students.

The laboratory of physiological chemistry at Teachers College is situated on the fourth floor of the Household Arts building. It contains two rooms fully stocked with apparatus and chemicals. The larger of these rooms will accommodate thirty-five workers at a time. The smaller room is intended for work by advanced students.

The Columbia University Biochemical Association holds quarterly scientific meetings, which are open to all students in the University. The association publishes the *Biochemical Bulletin*. **Biochemical Association**

BIOLOGY

Seven courses in Biology (elementary human anatomy and physiology, introduction to biology, human biology, biology in sex-education, applied biology—advanced course, elementary microbiology including bacteriology, special problems in applied biology) are offered under the direction of Teachers College. For details see the *Announcement of the School of Practical Arts*.

BOTANY

Professors: HARPER (*Executive Officer*) and RICHARDS

Associate Professors: CURTIS and MARQUETTE

Assistant Professor: HAZEN

Instructors: DODGE and LATHAM

Research Assistant: KUNKEL

Assistants: ALTENBURG, FRASER, RAND, and STEWART

The undergraduate courses in Botany are designed to give a broad general knowledge during the first year, and to permit some specialization thereafter. Graduate courses imply the completion of the equivalent of two to three years of undergraduate work.

Certain graduate courses at the New York Botanical Garden are also given, either wholly or in part, by members of the Garden staff.

See introductory paragraphs, page 60

1-2—General botany. C 2 and L 4 hours. Professor CURTIS, Dr. DODGE

3-4—Plant morphology. C 2 and L 4 hours. First half-year, algae and fungi. Second half-year, mosses and ferns. Professor HARPER

5—Elementary Plant Pathology. C 1, L 3 hours. Dr. DODGE

6—Economic botany. C 1, L 3 hours. Dr. DODGE

7—Growth and character of timber. C 1, L 3 hours. Professor CURTIS and Mr. ALTENBURG

9-10—Botanical problems. Introductory to research. Professors HARPER, CURTIS, and MARQUETTE

11-12—Plant anatomy and histology. *C* 2, *L* 4 hours. Professor MARQUETTE

101-102—Plant physiology. *C* 2, *L* 6 hours. Professor MARQUETTE

113-114—Morphology of the higher plants. Study of the orders, including the structure and relationship of plants. Professor CURTIS and Dr. DARLING

115-116—Mycology. Advanced work on the morphology and physiology of fungi with special reference to forms that cause diseases of plants. Professor HARPER

117-118—Cytology. General physiology of organisms. Lectures and laboratory work upon the reproduction, irritability, and nutrition of the cell. Professor HARPER

120—Plant reactions. Lectures and demonstrations on the responses of plants to external stimuli. Professor MARQUETTE

201-208—Physiology. Lines of work dealing with various problems in plant physiology, such as the relation of structure and function, growth, the irritable mechanism of the plant, and the permanent adaptive reactions to environmental factors. Professors RICHARDS, CURTIS, and MARQUETTE

209-210—Physiology of nutrition—treated from a chemical standpoint. Professors RICHARDS and GIES

211-212—Plant pathology. Diseases induced by cryptogamic parasites, including work in culture methods. Professor HARPER, Dr. MURRILL and Dr. SEAVER

217-218—Embryology of spermatophyta. With special work during two summers. Professors CURTIS and HAZEN

219-226—Morphology. Work dealing with morphological problems in the various groups of plants. Directed by members of the department and Botanical Garden staff

227-234—Taxonomy—Critical study of a family, genus, or other group selected from any division of the plant world. Directed by members of the Botanical Garden staff

235-238—Plant distribution. Problems dealing with regional botany or plant geography. Professor BRITTON and other members of the staff

239-240—Developmental taxonomy—Fossil ancestors of some family of plants. Dr. HOLLICK

241-242—Research on the physiology of the cell and reproduction. Professor HARPER

243-244—Plant breeding. Lectures and laboratory work upon the principles of heredity and plant genetics. Dr. SROUT

301-302—SEMINAR for the study of special topics in general physiology and the presentation of the results of investigation. Friday 4-6. Professor HARPER

CONVENTION—A botanical convention is held monthly at the library of the New York Botanical Garden, where members of the staff and

students either present the results of their own work or review the progress of botanical research and publication elsewhere.

51-52—Principles of plant morphology and physiology. *C* 2, *L* 4 hours. Professor RICHARDS, Misses LATHAM and BOAS (Barnard)

53-54—General morphology and development of plants. *C* 2, *L* 4 hours. Professor HAZEN and Miss BOAS (Barnard)

55-56—Morphology and classification of spermatophytes—Study of the natural orders. *C* 1 hour, *L* 4 or 6 hours. Professor HAZEN

153—Anatomy of vascular plants. *C* 2 and a minimum of *L* 6 hours. Professor RICHARDS and Miss LATHAM (Barnard)

154—Physiology of plants from standpoint of nutrition. *C* 2 and a minimum of *L* 6 hours. Professor RICHARDS and Miss LATHAM (Barnard)

156—Physiology of plants from standpoint of growth. *C* 2 and a minimum of *L* 6 hours. Professor RICHARDS and Miss LATHAM (Barnard)

158—Structure and development of algae—Advanced course. *C* 1, *L* 6 hours. Professor HAZEN (Barnard)

159—Structure and development of fungi—Advanced course. *C* 1, *L* 6 hours. Professor RICHARDS (Barnard)

Courses 158-159 are not usually given the same year

160—Embryology and laboratory methods. Practice in methods of technique, with the study of the embryology of one or more types. *L* 8 hours with occasional lectures and outside reading. Miss LATHAM (Barnard)

161-162—Advanced physiology and morphology. Work will be arranged to suit the needs of the students. Professors RICHARDS and HAZEN and Miss LATHAM (Barnard)

81—Nature and development of plants. 4 points. Professor CURTIS **Summer** and Dr. DODGE

83—Fungi and plant diseases. 4 points. Mr. FROMME

8101—Plant physiology. Full course. Mr. KUNKEL

8112—Mosses and ferns. Half course. Dr. DODGE

8113—Morphology of seed plants. Full course. Professor CURTIS and Mr. ALTENBURG

8125—Plant-breeding and propagation. Full course. Mr. ALTENBURG

8241—Research. Professor CURTIS

81-2—Nature and development of plants. 4 points. Dr. DODGE **Extension**

81a-2a—General botany. 2 points. Dr. DODGE

83a-4a—Plant morphology. 2 points. Professor CURTIS and Mr. FROMME

85-6—Students having completed 81-2, 81a-2a, 83a-4a, may register for 85-6. Professor HARPER

87-8—Farm forestry. 2 points. Dr. DARLING

Equipment The Department of Botany occupies the third floor of Schermerhorn, and the laboratories and lecture-rooms are well equipped with apparatus and material for morphological and physiological work.

Similar opportunities are offered to women in the laboratories at Barnard College.

Special laboratories are devoted to work in general and cellular physiology and are provided with micro-photographic equipment and a Zeiss ultraviolet microscope. All necessary apparatus and reagents are available for general histological and cytological work. Provision is also made for work on the metabolism of cells and their reactions to physical stimuli. The equipment includes apparatus for the study of the effects of various thermal light, and gravitational stimuli on protoplasmic activities, a photometer and electrical measuring instruments such as a delicate d'Arsonval galvanometer, millammeters, resistance measuring instruments, etc., for the study of electro-physiological problems.

A greenhouse connected with a small laboratory and dark room and equipped with a considerable amount of physiological apparatus affords facilities for experimental work in physiology and pathology and provides living material under the most favorable conditions for all instructional courses. A culture-room with modern equipment for growing the fungi and algae in pure cultures is also available.

Under agreement with the University the Botanical Garden supplies all needed facilities for research for members of the staff and for properly accredited students. This combination of forces not only places the Department of Botany within reach of material, equipment and collections not otherwise available, but opens up facilities for research work under conditions that are not excelled.

The Museum of the New York Botanical Garden is located in Bronx Park, and its entire upper floor is devoted to research. The physiological and morphological laboratories occupy the western end, and the taxonomic laboratories and herbarium the eastern end. Among the special features provided are to be mentioned the dark rooms, photographic, operating, and balance-room, and laboratory for physiological chemistry. Ample opportunity for experimental work in plant breeding and in plant pathology is afforded by the open-air plantations and extensive horticultural houses.

The Columbia herbarium and the equally extensive collections of the New York Botanical Garden are housed in the large room in the east wing of the Botanical Museum. The cryptogamic collections are arranged in special rooms. The entire aggregation of collections available for students is exceptionally full in every group of plants.

The library comprises over 20,000 volumes in addition to complete sets of the important botanical journals, which now number over one hundred.

A seminar for the study of special subjects in general physiology meets weekly. A colloquium for the study of current botanical literature meets

bi-weekly and a botanical conference meets monthly where members of the staff and students present the result of their own work or review the progress of botanical research elsewhere.

CHEMISTRY

Professors: BOGERT, MORGAN (J. L. R.), SHERMAN (H. C.), SMITH (ALEXANDER) (*Executive Officer*), and WHITAKER

Associate Professor: REIMER

Assistant Professors: BEANS, FREAS, METZGER, TUCKER and ZANETTI

Instructors: BARRY, BENDER, BUSWELL, CALVERT, FALES, FISHER, KELLER, KENDALL, LOMBARD, MCKIRAHAN, MURPHY, NEISH, NELSON and THOMAS

Assistants: FINCH, PUNNETT, TURCK and YATES

Laboratory Assistants: ALEXANDER, BAKER, BIRNBAUM, DE BEUKELAER, EGLOFF, HOKE, HOLLIDAY, LOWY, RANSOM, SCARLETT, SERLECHARD, TAÜBERG

General and inorganic, 1-19; 100-119; 200-219; physical, 21-39; 121-139; 220-239; organic, 40-59; 141-159; 241-259; analytical and food, 60-79; 160-179; 260-279; industrial, 80-99; 180-199; 280-299.

See introductory paragraphs, page 60

Courses given in Havemeyer Hall, numbered between 100 and 200, may be closed to women at the discretion of the Instructor.

A1—General elementary chemistry. 4 points. Dr. NEISH and Assistants

3C-4C—General inorganic chemistry. 2 C and 6 L. Professor SMITH, Mr. HAESELER and Assistants.

6C—General inorganic Chemistry. C 2 hours, L 6 hours. Dr. NEISH

3, 61 or 4, 62—General chemistry and qualitative analysis. C 5 hours, L 15 hours. Professor ZANETTI, Dr. BARRY, Mr. CALVERT, Mr. KENDALL and Mr. LESLIE

67-68—Qualitative analysis, college course. C 2 hours, L 6 hours. Mr. LOMBARD, Mr. PUNNETT and Assistant

101-102—Advanced inorganic chemistry. C 2 hours. Graduate Section, Professor SMITH; Applied Science Section, Dr. NEIGH

103-104—Experimental inorganic chemistry. C 2 hours and L 2 hours. Professor FREAS and Mr. KENDALL

111-112—Advanced qualitative inorganic analysis. C 2 hours. Professor BEANS

205-206—Inorganic chemistry, research. Professors SMITH and FREAS

26—Physical chemistry for College students. C 3 hours. Professor MORGAN

121-122—Physical chemistry, general course. C 3 hours, L 1 afternoon, first half-year only. Professor MORGAN and Assistant

127—Atomistics (atomistique)—a general presentation of physical

chemistry from the point of view of atomistics. *C* 3 hours. Professor PERRIN

221-222—Physical chemistry, research. *L* at least 20 hours. Professor MORGAN

225-226—Conferences on current research in physical chemistry. *C* 2 hours. Professor MORGAN

65—Quantitative analysis, inorganic, short course. *C* 2 hours, *L* 6 hours. Mr. BENDER

66—Quantitative analysis, inorganic, for Mining and Metallurgical Engineers. *C* 3 hours, *L* 12. Dr. MCKIRAHAN

71—Quantitative analysis, inorganic. *C* 2 hours, *L* 6 hours. Mr. FALES

163-164—Quantitative analysis. *C* 3 hours, *L* 12 hours. Professor BEANS and Instructors

167-168—Advanced inorganic analysis. *C* 2 hours. Professor BEANS (not given in 1913-14)

261-262—Research. Conferences and laboratory work. 20 hours. Original investigation in inorganic analysis. Professor BEANS

76—Microscopical analysis. *L* 2 hours, during February and March. Mr. BUSWELL

78—Sanitary biological analysis. *C* 2 hours, *L* 3 hours. Mr. BUSWELL

79—Sanitary bacteriological analysis. *C* 2 hours, *L* 6 hours. Mr. BUSWELL

171—Organic analysis. *C* 2 hours, *L* 6 hours. Professor SHERMAN and Mr. THOMAS

175—Food analysis. *C* 2 hours, *L* 6 hours. Professor SHERMAN and Mr. THOMAS

176—Chemistry of food and nutrition. *C* 3 hours. Professor SHERMAN

178—Food chemistry—conferences. *C* 2 hours. Professor SHERMAN

179—Analysis of water and sewage. *L* 6 hours. Mr. BUSWELL

180—Sanitary analysis—advanced methods and special problems. *L* 6 hours. Mr. BUSWELL

271-272—Food chemistry research. Conferences and laboratory work. 20 hours. Professor SHERMAN

41-42—Organic chemistry, elementary lecture course. *C* 2 hours. Applied science section, Dr. NELSON; College section, Dr. FISHER

43-44 *a* or *b*—Organic chemistry. Introductory laboratory course. *a*, *L* 8 hours; *b*, *L* 4 hours. Drs. NELSON and FISHER

43M—Organic chemistry, Introductory laboratory course. *L* 12 hours. Drs. NELSON and FISHER

49—Organic chemistry. *C* 2 hours, *L* 9 hours. Drs. NELSON and FISHER

141-142—Organic chemistry. General course. *C* 3 hours. Professor BOGERT

143-144—Organic chemistry. Conferences, *C* 2 hours, and for students who elect thesis work in organic chemistry. Professor BOGERT

151-152—Advanced organic chemistry, laboratory course. Conferences, private study and laboratory work. Professor BOGERT, Drs. NELSON and FISHER

153—General organic chemistry. *C* 2 hours. Dr. NELSON

241-242—Organic chemistry, research. *L* 20 hours per week. Professor BOGERT and Dr. NELSON

81-82—Industrial chemistry, general. *C* 3 hours. Professor WHITAKER and Dr. MURPHY

83—Industrial chemistry, advanced. *C* 3 hours. Professor METZGER

84—Food chemistry. *C* 3 hours. Professor SHERMAN

88—Industrial chemistry, laboratory practice. *L* 9 hours. Professor WHITAKER and Dr. MURPHY

89—Industrial chemistry. *L* 3 hours. Professor METZGER

93-94—Electro-chemistry. *C* 2 hours, and in the second half-year, *L* 15 hours. Professor TUCKER

183-184—Industrial electro-chemistry. Lectures and short laboratory course. *C* 2 hours, *L* 1 hour. Professor TUCKER

181-182—Practical electro-chemistry. *C* 10 hours. Professor TUCKER

197—Chemical factory apparatus and machines. *C* 5 hours. Professors WHITAKER and THOMAS

198—Chemical factory management. *C* 3 hours. Professor WHITAKER

293-294—Industrial chemistry, research. Personal conference and *L* 20 hours. Professors WHITAKER and METZGER

281-282—Electro-chemical research—Original investigations. 20 hours. Professor TUCKER

80a—Factory inspection and summer memoir, second year. Professors WHITAKER and METZGER

80b—Factory inspection, summer work and memoir, third year. Professors WHITAKER and METZGER

H199—Chemistry of bituminous materials. Lectures, demonstrations and seminars. Daily, 2 weeks, beginning December 18, and counting as a 3-hour course. Mr. HUBBARD

H200—Chemistry of bituminous materials, laboratory course. Lectures, laboratory work. Daily, 2 weeks, beginning December 18, and counting as a 3-hour course. Mr. HUBBARD

5-6—General inorganic chemistry. 5 hours. Professor REIMER, Miss KELLER and Miss CLARK (Barnard)

41-42—Organic chemistry, elementary lecture course. *C* 3 hours. Professor REIMER (Barnard)

43-44—Organic chemistry, elementary laboratory course. *L* 6 hours. Professor REIMER (Barnard)

63—Qualitative analysis. *C* 3 hours, *L* 8 hours. Miss KELLER (Barnard)

64—Quantitative analysis. *C* 3 hours, *L* 8 hours. Miss KELLER (Barnard)

105-106—Inorganic chemistry, advanced course. *C* 3 hours, *L* 6 hours. Miss KELLER (Barnard)

301-302—Departmental seminar. 2 hours. All members of the department.

135-136—Physical chemistry. *C* 3 hours. Professor MALTBY (Barnard)

[145-146—Organic chemistry, advanced course. *C* 3 hours, *L* 6 hours. Professor REIMER (Barnard)]

Journal Club. Professor REIMER and Miss KELLER. 1 hour

Summer sA1-2—General chemistry. 6 points. Dr. MOORE, Mr. CALVERT and Assistants.

s3C-4C—Inorganic chemistry. *C* 10 hours. Mr. LOMBARD

s81—Industrial chemistry, general. *C* 5 hours. Mr. BUSWELL

s123—Experimental physical chemistry. *C* 3 hours, *L* 12 hours. Drs. MOORE and CARSON

s138—Elementary physical chemistry. Half-course. Professor MORGAN

s61 or s61a—Qualitative analysis. 6 points. Professor BEANS and Assistants

s111—Modern qualitative analysis. *C* 10 hours. Professor BEANS

s41-s42—Organic chemistry. Elementary lecture course. 2 points. Dr. FISHER

s43-44a, b—Organic chemistry, laboratory course. a, *L* 40 hours; b, *L* 20 hours. Dr. FISHER and Mr. ELDER

s66—Quantitative analysis. *C* 5 hours, *L* 30 hours. Mr. BENDER and Dr. MCKIRAHAN

s164—Quantitative analysis, advanced. *C* 5 hours, *L* 30 hours. Mr. BENDER and Dr. MCKIRAHAN

s175—Food analysis. Full course. Professor SHERMAN and Mr. THOMAS

s176—Chemistry of food and nutrition. Full course. Professor SHERMAN and Mr. THOMAS

s221-222—Physical chemistry, research. Professor MORGAN

s272, a, b, c—Problems in food chemistry or organic analysis. 6, 4, or 2 points. Professor SHERMAN and Mr. THOMAS

Extension eA1—General chemistry, college course. 4 points. Dr. NEIGH

e3-4—General inorganic chemistry. 5 points. Dr. MOORE

e6—General inorganic chemistry. 5 points. Dr. NEIGH

e41-42—Organic chemistry, elementary lecture course. 2 points. Dr. FISHER

For courses in Chemistry given at Teachers College and for courses in

Chemistry and Physiological Chemistry given at the College of Physicians and Surgeons and at the College of Pharmacy, see the Table of Contents and the special *Announcements* of these Schools.

In Havemeyer Hall the Chemical Department is provided with ample **Equipment** space for its museum, lecture-rooms, and laboratories.

There are five chemical lecture-rooms, all fully supplied with apparatus and instruments, the desks being equipped with pneumatic troughs, gas, pressure, exhaust, and electricity. The large chemical lecture-room on the ground floor contains 248 seats.

The Museum of General Inorganic and Organic Chemistry and of the Chemical Arts, a large room occupying the whole left wing of the ground floor, contains the elements and all their more important compounds, inorganic and organic; materials and products illustrating the chemical arts, and numerous models, pictures, and diagrams.

The new William H. Nichols Laboratories for General Inorganic Chemistry and Qualitative Analysis, together with the rooms for instructors and for research, occupy the whole of one floor of Havemeyer Hall. They are fitted up in the most modern and complete way, with all the conveniences required for instruction and investigation.

The Quantitative Laboratory has eighty-eight desks. Attached to the main laboratory is a large, well-equipped balance-room, containing accurate balances, and special rooms, provided with apparatus for gas, water, food, and electrolytic analysis.

The Organic Laboratory has forty large desks, provided with gas, water, exhaust, and electricity, and has special rooms for balances, pressure ovens, glass-blowing and combustions.

The Laboratory of Industrial Chemistry, for the instruction of students in practical operations and the solution of problems in sanitary chemistry and hygiene, is equipped for the manufacture of pure chemicals from their raw materials on an industrial scale, with fine batteries of steam evaporators, and with steam stills, centrifugals, filter presses, crushers, and the like. It includes a dyeing laboratory with a large stock of dye-stuffs, and with the regular equipment for the practical testing of dyes, including a calico-printing machine. Connected with it is a photometer-room, containing a new and complete outfit for the practical testing of illuminants. It also includes a laboratory for chemical microscopy, newly equipped with microscopes, polarized light apparatus, camera lucidas, etc., for the practical use of the microscope in chemical operations.

A new Laboratory for Practical Electro-Chemistry has been provided. The equipment consists of special motor-dynamos, one of which furnishes direct current at low voltages to the students' desks for general electrolytic work; the other provides heavy alternating current to the electric furnace room; this room is furnished with all appliances for electric furnace work. The students' desks are fitted with special switchboards and

measuring instruments, and the laboratory has been arranged for carrying on research work in all branches of electro-chemistry.

The Laboratory of Physical Chemistry is well equipped with the most recent apparatus adapted to a wide range of experimental work in the branches of heat, light, electricity, etc., as applied to chemical problems.

The Chemical Library in Havemeyer Hall is supplied with an extensive collection of chemical books and journals, and is open from 9.00 A.M. to 5.00 P.M.

The Department of Chemistry at Barnard College has laboratories well equipped with every facility for the proper study of the subjects offered. The desks have water, gas, and electricity. There is a small library of useful reference books in chemistry to which the students have free access during the entire day.

The laboratories and lecture-room of Teachers College are well equipped for illustrating the teaching of Chemistry in secondary and normal schools. In these the chemistry classes of the Horace Mann School receive their instruction, and by observation and practical work in connection with the classes the students in Education 191-192 are enabled to become familiar with the duties of a teacher of Chemistry.

CHINESE (see p. 141)

CIVIL ENGINEERING

Professors: BLANCHARD, BURR (*Executive Officer*), LOVELL

Assistant Professors: JACKSON, NORSWORTHY

Instructors: DROWNE, FINCH, MACGREGOR

Assistants: FISH and PERRINE

See introductory paragraphs, page 60

2—Theory of plane surveying. 2 hours. Professor LOVELL, Mr. FINCH and Assistants

15—Surveying practice—five weeks field work. Professor LOVELL, Mr. FINCH and Assistants

21—Highway engineering. 2 hours. Professor LOVELL

23—Theory of railroad surveying—for mining engineering students. 2 hours and one afternoon. Professor LOVELL and Mr. FINCH

25—Surveying practice—for civil engineering students—five weeks field work and office work. Professor LOVELL, Mr. FINCH and Assistants

26—Hydrographic surveying—combined with geodetic surveying and together requiring five weeks—for civil engineering students—two weeks field and office work. Professor LOVELL, Mr. FINCH and Assistants

27—Surveying practice—for mining engineering students—five weeks field and office work. Professor LOVELL, Mr. FINCH and Assistants

28—Railroad surveying—for mining engineering students—three weeks field and office work. Professor LOVELL, Mr. FINCH and Assistants

51-52—Theory of railroad surveying—for civil engineering students.

2 hours and one afternoon first half-year, 2 hours and one afternoon second half-year. Professor LOVELL and Mr. FINCH

53-54—Elasticity and resistance of materials of engineering. 5 hours lectures and recitations and two afternoons first half, 3 hours second half. Professors BURR, NORSWORTHY and Messrs. MACGREGOR and FERRINE

55—Standard methods of water analysis. 2 afternoons. Assistant Professor JACKSON

57a—Statistics and interpretation of water analyses. Assistant Professor JACKSON

57b—Drainage of marshes and lowlands. 10 lectures.

58—Masonry structures. 3 hours and one afternoon. Professor NORSWORTHY

59—Sanitary treatment of water-supplies and of sewage. 2 hours and 2 afternoons in January. Assistant Professor JACKSON

61—Analytical theory of trusses. 2 hours and 1 afternoon. Assistant Professor NORSWORTHY

62—Graphic statics—for civil engineering students. 2 hours and one afternoon. Assistant Professor NORSWORTHY

64—Graphic statics—for mining engineering students. 1 hour and one afternoon. Assistant Professor NORSWORTHY

71—Railroad surveying—for civil engineering students—four weeks' field and office work. Professor LOVELL, Mr. FINCH and Assistants

75—Hydraulics—for civil engineering students. 4 hours. Mr. FINCH

76—Hydraulics—for mining engineering students. 2 hours. Mr. FINCH

77—Hydraulics—for electrical engineering students. 2 hours. Mr. FINCH

78—Hydraulics—for mechanical engineering students. 2 hours. Mr. FINCH

85—Foundations. 2 hours and 1 afternoon. Professor BURR

87-88—Design and construction of bridges, roofs, and buildings. 2 hours and 1 afternoon. Professors BURR and NORSWORTHY

89-90—Railroad engineering, construction, and operation. 3 hours and 2 afternoons. Professor LOVELL and Mr. FINCH

94—Design and construction of sewers and river and harbor improvements. 2 hours. Assistant Professor JACKSON

96—Principles of hygiene, sanitary science, and public health. 3 hours. Assistant Professor JACKSON

97—Water-supply and irrigation engineering. 2 hours. Mr. FINCH

99-100—Graduation thesis—a project or thesis on some civil engineering subject, approved by the head of the department, is required of every candidate for the degree of Civil Engineer

**Summer
Surveying**

These courses are conducted during fifteen weeks each summer vacation at Camp Columbia, near Litchfield, Conn., where ample facilities are provided for all requisite operations, and where the topography is admirably adapted to the practical work of surveying. The courses there given are those announced above under the numbers 15, 25, 26, 27, 28, and 71. The University issues a special pamphlet with regard to these courses, which may be had upon application to the Secretary.

**Highway
Engineering**

101—Economics and design of roads and pavements. Lectures. 2 hours. Professor BLANCHARD

102—Macadam and other roads; block and concrete pavements. Lectures, inspection trips, and reports. 3 hours. Professor BLANCHARD

103—Bituminous surfaces and bituminous pavements. Lectures, inspection trips, and reports. 3 hours. Professor BLANCHARD

104—Highway laws and systems of administration. Lectures, reading, and conferences. 2 hours. Professor BLANCHARD

105—Highway bridges and culverts. Lectures and problems in design work. 1 hour. Professor BURR and Mr. DROWNE

106—Management engineering. Lectures. 1 hour. Mr. DROWNE

107—Mechanical appliances used in highway engineering. Lectures, inspection trips, and reports. 2 hours. Mr. DROWNE

108—Road material laboratory. Lectures and laboratory work. 3 hours. Mr. DROWNE

109—Road surveying and design. Lectures, inspection trips, and design work. Daily, 2 weeks, beginning January 22 and counting as a 3-hour course. Mr. DROWNE

110—Street surveying and design. Lectures, inspection trips, and design work. Daily, 2 weeks, beginning January 22 and counting as a 3-hour course. Mr. DROWNE

111—Seminar in highway engineering literature. First session. Reading and conferences. 3 hours. Professor BLANCHARD

112—Seminar in highway engineering literature. Second session. Reading and conferences. 3 hours. Professor BLANCHARD

Graduate

153-154—Elasticity and resistance of materials

257-258—Elastic and masonry arches. Conferences with reading and design work as required. Based upon Course 58

275-276—Hydraulics (75 with additional reading)

285-286—Foundations, including theory of earth pressure (85 with additional reading)

287-288—Long-span bridges. Conferences with reading and design work as required. Based upon Courses 87-88

291-292—Railroad location—Economics of railroad location. Based on Courses 89-90

259-260—Sanitary engineering. Based upon Courses 59, 94, 98

277-278—Hydraulic engineering, including the hydraulics of rivers and power plants and municipal water-works

289-290—The engineering of structures, including long-span bridges and deep foundations, with methods of building them, and advanced work in elasticity and resistance of materials

293-294—Railroad engineering—Design of the permanent way. Based on Courses 53-54, 75, 85, 87-88, 89-90

The department possesses an unusually full equipment of engineers' **Equipment** and solar transits, levels, plane tables, compasses, and all accessories, as well as smaller instruments. Current meters, hook gauges, and floats of various types are also used in making observations in the flow in and discharge of rivers and canals. A complete set of sections of iron and steel shapes, models, and photographs of engineering works, together with working plans of the latter, are in the department for the use of students. The hydraulic laboratory affords opportunity for the practical operations of measuring the discharge through weirs and other orifices, the flow through open channels and closed pipes, frictional and other resistances in pipes and open channels, as well as for meter gaugings, and for general hydraulic investigations. The testing work in the mechanical laboratory includes the complete tests of various structural materials in tension, compression, bending, and torsion, including the observation and digesting of all corresponding data.

CLASSICAL PHILOLOGY

Professors: EGBERT, KNAPP, LODGE, MCCREA, MOORE (F. G.), PERRY, WHEELER, and YOUNG (*Executive Officer*)

Associate Professor: VAN HOOK

Assistant Professors: HIRST, LOCKWOOD, STURTEVANT

Associate: SHEAR

Instructors: CRAWFORD, DEMAREST, GUERNSEY, MESSER

Lecturer: GOODALE

See Introductory paragraphs, page 60

Columbia College

1-2—Elementary course. 3 hours. Professor LOCKWOOD

3—Homer. Lucian. 3 hours. Professor YOUNG

4—Lucian. Plato. 3 hours. Professor PERRY

9-10—Prose composition. First course. One session weekly counting as 2 hours. Dr. GUERNSEY

11—Euripides. Sophocles. 3 hours. Professor PERRY

12—Demosthenes, *De Corona*. Aeschines. 3 hours. Professor WHEELER

13—Rapid reading of Homer. 2 hours. Professor STURTEVANT

Greek

14—Rapid reading of Herodotus. 2 hours. Professor WHEELER

15—Lucian. Xenophon, *Oeconomicus*. 2 hours. Professor WHEELER

16—Plato, *Euthyphro*, *Crito*, and selections from the *Phaedo*. 2 hours.

Mr. DEMAREST

29-30—Prose composition. Second course. One session weekly counting as 2 hours. Professor WHEELER

31—Aeschylus or Sophocles. Aristophanes. 3 hours. Professor VAN HOOK

32—Thucydides. 3 hours. Professor YOUNG

39-40—Prose composition. Third course. One session weekly counting as 2 hours. Professor PERRY

Latin A1—Livy, selections. Terence. 3 hours. Professors McCREA, MOORE, LOCKWOOD, STURTEVANT, Dr. GUERNSEY, Mr. CRAWFORD, Mr. DEMAREST and Mr. MESSER

A2—Horace, *Odes* and *Satires*. Catullus. 3 hours. Professors DEMAREST, MOORE, LOCKWOOD, STURTEVANT, Dr. GUERNSEY, Mr. DEMAREST and Mr. MESSER

9-10—Prose composition. First course. One session weekly counting as 2 hours. Mr. MESSER

11—Horace, *Satires* and *Epistles*. Tacitus, *Germania*. 3 hours. Professor LOCKWOOD

12—Juvenal. Martial. Pliny, *Letters*. 3 hours. Professor EGBERT

15—Seneca, prose works. Boethius. 2 hours. Dr. GUERNSEY

16—Tacitus, *Annales* I-VI, selections. 2 hours. Mr. DEMAREST

29-30—Prose composition. Second course. One session weekly counting as 2 hours. Professor STURTEVANT

31—Roman philosophy; selections from the works of Cicero and Lucretius. 3 hours. Professor McCREA

32—Roman drama; selected plays of Plautus, Terence, and Seneca. 3 hours. Professor STURTEVANT

39-40—Prose composition. Third course. One session weekly counting as 2 hours. Professor LOCKWOOD

41—Latin literature of the Republic. Three sessions weekly counting as 4 hours. Professor MOORE

42—Latin literature of the Empire. Three sessions weekly counting as 4 hours. Professor MOORE

**Classical
Civilization**

52—Greek life and thought. 2 hours. Professor VAN HOOK

Teachers College

51-52T—Latin readings. 3 hours. Professor LODGE

Barnard College

Greek

1-2—Elementary course. Grammar. Composition. Xenophon. Homer. 5 hours. Professor HIRST

- 3—Homer. Lucian. 3 hours. Professor YOUNG
 4—Lucian. Plato. 3 hours. Professor PERRY
 9-10—Prose composition. First course. One session weekly counting as 2 hours. Mr. MESSER
 11—Euripides. Sophocles. 3 hours. Professor PERRY
 12—Demosthenes, *De Corona*. Aeschines. 3 hours. Professor WHEELER
 13—Rapid reading of Homer. 2 hours. Mr. DEMAREST
 14—Rapid reading of Herodotus. 2 hours. Mr. MESSER
 15—Lucian. Xenophon, selections from *Memorabilia* and *Symposium*. 2 hours. Dr. GUERNSEY
 16—Plato, *Euthyphro*, *Crito*, and selections from the *Phaedo*. 2 hours. Professor VAN HOOK
 29-30—Prose composition. Second course. One session weekly counting as 2 hours. Mr. DEMAREST
 31—Aeschylus or Sophocles. Aristophanes. 3 hours. Professor VAN HOOK
 32—Thucydides. 3 hours. Professor YOUNG
 39-40—Prose composition. Third course. One session weekly counting as 2 hours. Dr. GUERNSEY

A1—Livy, selections. Terence. 3 hours. Professors VAN HOOK, **Latin** HIRST, STURTEVANT, Dr. GUERNSEY, Mr. DEMAREST, Mr. MESSER, and Miss GOODALE

A2—Horace, *Odes* and *Satires*. Catullus. 3 hours. Professors VAN HOOK, HIRST, STURTEVANT, Dr. GUERNSEY, Mr. DEMAREST, Mr. MESSER and Miss GOODALE

9-10—Prose composition. First course. One session weekly counting as 2 hours. Miss GOODALE

11—Horace, *Satires* and *Epistles*. Tacitus, *Germania*. 3 hours. Professor KNAPP

12—Juvenal. Martial. Pliny, *Letters*. 3 hours. Professor HIRST

15—Seneca, prose works. Boethius. 2 hours. Professor HIRST

16—Tacitus, *Annales* I-VI, selections. 2 hours. Dr. GUERNSEY

29-30—Prose composition. Second course. One session weekly counting as 2 hours. Professor HIRST

31—Roman philosophy; selections from the works of Cicero and Lucretius. 3 hours. Professor McCREA

32—Roman drama; selected plays of Plautus, Terence, and Seneca. 3 hours. Professor KNAPP

39-40—Prose composition. Third course. One session weekly counting as 2 hours. Professor LOCKWOOD

41—Latin literature of the Republic. Three sessions weekly counting as 4 hours. Professor KNAPP

42—Latin literature of the Empire. Three sessions weekly counting as 4 hours. Professor KNAPP

**Classical
Civilization**

52—Greek life and thought. 2 hours. Professor VAN HOOK

Teachers College

Latin 51-52T—Latin readings. 3 hours. Professor LODGE

**Graduate
Courses
Greek**

WHEELER

201-202—Greek literature. Part I: Poetry. 3 hours. Professor

215—Aristotle, *The Constitution of Athens*. 3 hours. Professor YOUNG

216—The Greek Historians. 3 hours. Professor YOUNG

217—Elegiac, Iambic, and Bucolic Poets. 3 hours. Professor PERRY

218—Melic Poets. 3 hours. Professor PERRY

253—Greek epigraphy. Introductory course. 2 hours. Professor PERRY

254—Greek epigraphy. Second course. 2 hours. Professor PERRY

Latin

203-204—Latin literature of the Empire. 3 hours. Professors McCREA and LOCKWOOD

205-206—Roman philosophy. 3 hours. Professor MOORE

207-208—Epic poetry. 3 hours. Professor KNAPP

229—Prose composition. Latin idiom. 2 hours. Professor McCREA

251—Roman epigraphy. Introductory course. 2 hours. Professor EGBERT

252—Roman epigraphy. Official and sepulchral inscriptions. 2 hours. Professor EGBERT

Teachers College

Education 175-176—Theory and practice of teaching Latin in secondary schools—Lectures, reports, and practical work. 3 hours. Professor LODGE

201-202T—Latin conversation. 2 hours. Professor LODGE

Education 275-276—Practicum in Latin. Caesar and Virgil. 2 hours. Professor LODGE

Classical Archaeology

Greek 149—Greek archaeology. Introductory course. 3 hours. Professors WHEELER and YOUNG

154—Greek archaeology. Part II: Sculpture. 3 hours. Professor YOUNG

259—The Acropolis of Athens. 2 hours. Professor WHEELER

Latin 253-254—Roman archaeology and epigraphy. 2 hours. Professor EGBERT

255-256—Roman private life. 2 hours. Professor LOCKWOOD

291-292—Comparative grammar of Greek and Latin. 2 hours. Professor STURTEVANT **Comparative Philology**

301-302—Proseminar in Greek and Latin. 2 hours. One session weekly. Professor KNAPP **Classical Proseminar**

303-304—Greek section. The Attic orators. 2 hours. One session weekly. Professor VAN HOOK **Classical Seminar**

305-306—Latin section. Tacitus. 2 hours. One session weekly. Professor MOORE

Summer

s150—Greek art. Half course. Professor BASSETT **Classical Archaeology**
 s1—Elementary course. 4 points. Professor MACURDY
 s2—*Iliad*. 2 points. Dr. STURTEVANT
 s109—Lyric poetry. Half course. Professor MACURDY
 s119—Greek prose composition. Half course. Professor BASSETT

sX1—Elementary course. 2 points. Miss WYE **Latin**
 sX2—Reading course. Caesar. 2 points. Miss WYE
 sZ—Latin prose composition. 2 points. Miss WYE
 sA1—Livy. 3 points. Professor GUMMERE
 sA2—Horace. Catullus. 3 points. Professor MOORE
 s9—Latin prose composition. 2 points. Professor KNAPP
 s119—Latin prose composition. Half course. Professor MOORE
 s131—Vergil's *Aeneid*. Advanced course. Half course. Professor KNAPP
 s133—Cicero, selected letters. Half course. Professor STURTEVANT
 s136—Roman comedy. Half course. Professor GUMMERE

Extension

eA3—Collegiate Latin. Horace, *Odes* and *Satires*. Catullus. 3 points. Dr. GUERNSEY **Latin**
 eA4—Collegiate Latin. Terence, *Phormio*; Livy (Books XXI-XXII). 3 points. Dr. GUERNSEY
 eX1—Elementary Latin. 4 points. Miss WYE
 eX2—Caesar, Neops, and prose composition. 4 points. Miss WYE
 eY1—Ovid and Vergil. 4 points. Miss WYE
 eY2—Cicero and Sallust. 4 points. Miss WYE
 eY3—Latin prose composition. 2 points. Miss WYE
 eY4—Latin prose composition. Course eY3 repeated. 2 points. Miss WYE
 eY5-6Y—Readings in Latin literature. 2 points each half-year. Miss WYE
 eY8—Ovid and Vergil. Course eY1 repeated. 4 points. Miss WYE

CLINICAL INSTRUCTION

in Dermatology and Syphilis, Laryngology, Ophthalmology, Orthopedic Surgery, and Otology. For Clinical Instruction in Medicine, Surgery, Genito-Urinary Diseases, Obstetrics, Gynecology, Hydrotherapy, Neurology, and Pediatrics, details will be found under the general heading of these departments.

Professors: BACON, CHAPPELL, DENIG, FORDYCE, GIBNEY, HAYDEN, KNAPP, LEWIS, and SIMPSON

Assistant Professor: WHITMAN

Instructors: BLACKWELL, CARR, COCKS, DARLING, FROTHINGHAM, GROUT, HOLDEN, JAEGER, KINGSLEY, MACKEE, MCMURTRY, MICHAELIS, SAUNDERS, THURBER, TYSON, and WHITING

Lecturer: ROGERS

Clinical Assistants:—*Orthopedic Surgery*—FRIEDER, KLEINBERG, BOORSTEIN, WHITBECK; *Otology*—CARR, MICHAELIS, ALEXANDER, MYERS; *Dermatology*—ALDRICH, MCMURTRY, RAINFORTH, WISE, *Ophthalmology*—GROUT, DIEM, MEGEE, FRYE, BARVER; *Laryngology*—BLUMGARTEN, COLL, HARDENBERG, KOBLER, LESHURE, OSGOOD, MYERS, SINGER, VAN WAGENEN, FREUDENFALL, HINSDALE

- Dermatology** 201-202—Dermatology and syphilology. 1 hour. Professor FORDYCE
 204—Practical instruction in the diagnosis and treatment of diseases of the skin and syphilis; instruction in radiography. At the Vanderbilt Clinic; 2 hours; one-sixth of third year. Dr. MACKEE
 205-206—Histo-pathology of skin diseases and syphilis. 3 hours. Dr. MCMURTRY
 207-208—Dermatological therapeutics. 3 hours. Dr. MCMURTRY
 209-210—Radiotherapy in skin diseases. 3 hours. Dr. MACKEE
 211-212—Clinical diagnosis and treatment of skin diseases. 3 hours. Dr. MACKEE

The department of dermatology and syphilis is equipped with laboratories for histo-pathology, X-ray therapy, and serology as well as with a separate department for the treatment of syphilis by intravenous and intramuscular medication.

- Genito-Urinary** 201—Practical instruction in the diagnosis and treatment of genito-urinary and venereal diseases. 2 hours. Drs. WHITING and KINGSLEY
 202—Genito-urinary and venereal diseases. 1 hour. Professor HAYDEN
 204—Hospital clinics in genito-urinary diseases. 1½ hours. Professor HAYDEN
 206—Practical instruction in the diagnosis and treatment of genito-urinary and venereal diseases. 2 hours. Dr. WHITING

- Laryngology** 201—Practical instruction in laryngology. 2 hours. Dr. THURBER
 202—Clinical lecture on laryngology. 1 hour. Professor SIMPSON
 204—Practical instruction in laryngology. 2 hours. Dr. THURBER
 206—Individual clinical demonstration in laryngology. 1 hour. Dr. FROTHINGHAM

207-208—Practical clinical instruction in laryngology. 1 hour. Professor CHAPPELL and Dr. COCKS

201—Practical instruction in ophthalmology. 2 hours. Drs. HOLDEN, **Ophthalmology**
TYSON, and GROUT

202—Clinical lectures upon the diseases of the eye. 1 hour. Professor KNAPP

205-206—Hospital clinics in ophthalmology. Professor KNAPP

202—Clinical lectures on orthopedic surgery and diseases of the joints. **Orthopedic**
1 hour. Professor GIBNEY **Surgery**

203-204—Practical instruction in orthopedic surgery. 2 hours. Professor WHITMAN

205-206—Practical instruction in orthopedic surgery. 2 hours. Dr. JAEGER

201—Didactic instruction in otological pathology and therapeutic **Otology**
methods. 1 hour. Professor BACON

202—Practical instruction in the diagnosis of the diseases of the ear.
2 hours. Drs. SAUNDERS, MICHAELIS, and CARR

205-206—Operations and bedside instruction in otology. 2 hours. Professors BACON and LEWIS

COMPARATIVE LITERATURE (see page 104)

DESIGN

For list of officers and other information see Faculty of Fine Arts

1-2—History of art—Collateral reading and research. 4 hours. Professors ALEXANDER, DOW and Mr. E. R. SMITH

101-102—History of art—Advanced reading and research. 8 hours. Professors ALEXANDER, DOW and Mr. E. R. SMITH

DISEASES OF CHILDREN

Professor: HOLT (*Executive Officer*)

Associates: BERG (H. W.) and LA FETRA

Instructors: BARTLETT, HAYNES, HERRMAN, NORTON, SMITH, and WILCOX

Assistants: HAMILTON, HOOBLER, MCLEAN, MERSEREAU, REUBEN, RIESENFELD, and SILVER

Clinical Assistants: WILE, SCHNEPEL, GROESCHEL, REUBEN, MANNING, CLEAVES, and BINGHAM

See introductory paragraphs, page 60

Courses, 203, 204, 206, 207-208, 209-210, 211-212, 213-214, 215-216, 217-218, and 219-220 are also open to graduates in medicine.

201—Recitations in diseases of children. 1 hour. Dr. BARTLETT

203—Clinical lectures on diseases of children. 1 hour. Professor HOLT

204—Didactic lectures on diseases of children. 1 hour. Professor HOLT

206—Examination and diagnosis of the diseases of children. 2 hours. Dr. C. H. SMITH, and Assistants

207-208—Bedside instruction in the contagious diseases of children. 1 hour. Drs. BERG and HAYNES

209-210—Hospital clinic in diseases of children. 3 hours. Professor HOLT

211-212—Clinical instruction in diseases of children. Drs. LAFETRA and WILCOX

213-214—Diseases of children. 6 hours. Dr. BARTLETT

215-216—Diseases of children. 6 hours. Drs. LAFETRA and WILCOX

217-218—Diseases of children. 6 hours. Dr. NORTON

219-220—Hospital clinic in diseases of children. 3 hours. Professor HOLT

Post-Graduate A limited number of graduates in medicine will be received in this department for post-graduate instruction. No students will be admitted for less than one half-year and applicants must have had a previous hospital training. The instruction will include clinical work in general diagnosis and treatment of diseases of children in the wards of Babies', Foundling, and Bellevue Hospitals and in the Vanderbilt Clinic, special instruction in contagious diseases at the Willard Parker and Scarlet Fever Hospitals, and opportunities for witnessing post-mortem examinations at the New York Foundling Hospital.

DRAFTING

Associate Professor: MAYER (*Executive Officer*)

Assistant Professors: HARRINGTON and MILLER

Instructor: BEANS

Assistant: MCKINLEY

See introductory paragraphs, page 60

1-2—(a) Elements of mechanical drawing; freehand lettering; (b) Projections; (c) Machine drawing—sketches, tracing; (d) Topography. 1 hour and 14 hours drafting. Professors MAYER, MILLER, HARRINGTON and Mr. BEANS

3-4—Descriptive geometry—Problems on point, line, and plane; tangent planes; intersections; developments; warped surfaces. 3 hours. Professors MAYER, MILLER and HARRINGTON and Mr. BEANS

5-6—(a) Graphics—Shades and shadows; perspective; (b) Stone-cutting. 6 hours. Professors MAYER, MILLER and HARRINGTON

7-8—(a) Structural drawing; (b) Machine drawing. 6 hours. Professors MAYER, MILLER, and HARRINGTON

- s1-2—Mechanical drafting. 3 points. Professor MAYER
 s3-4—Descriptive geometry. 2 points. Professor MAYER
 s5-6 and 7-8—Advanced mechanical drafting. 3 points. Professor MAYER
 e1-2—Mechanical drafting. 2½ points. Professor HARRINGTON
 e3-4—Descriptive geometry. 2 points. Professor HARRINGTON
 e5—Graphics. 3 points. Professor HARRINGTON
 e8—Specialized engineering drafting. (a) Structural drafting. (b) Machine drafting. 3 points. Professor HARRINGTON

ECONOMICS AND SOCIAL SCIENCE

Professors: CLARK, DEVINE, GIDDINGS, LINDSAY, MOORE (H. L.), SEAGER, and SELIGMAN (*Executive Officer*)

Associate Professors: CHADDOCK, MUSSEY and SIMKHOVITCH

Assistant Professors: AGGER and TENNEY

Exchange and Visiting Professors: RATHGEN and SCHUMPETER

Instructors: HAIG and HUTCHINSON

Lecturers: MITCHELL and SUFFERN

Assistants: BRANDT, SHENTON and WHITIN

See introductory paragraphs, page 60

A1-A2—Outlines of economics—Practical economic problems. Recitations, lectures, and essays. 3 hours. Professors MUSSEY and CHADDOCK and Dr. HUTCHINSON (Barnard College) **Political Economy and Finance**

1-2—Introduction to economics—Practical economic problems. 3 hours. Professors SELIGMAN, SEAGER, AGGER, Dr. HAIG and Mr. SUFFERN

3-4—Money and banking. 2 hours. Professor AGGER

101—Science of finance—I: Public revenues. 2 hours. Professor SELIGMAN.

102—Science of finance—II: Public expenditures, public debts, and the budget. 2 hours. Professor SELIGMAN.

104—Commerce and commercial policy. 2 hours. Professor MUSSEY

105—The labor problem. 2 hours. Professor SEAGER

This course is also given at Barnard College as a three-hour (four-point) course (117).

106—The trust and corporation problem. 2 hours. Professor SEAGER

107—Fiscal and industrial history of the United States. 2 hours. Professor SELIGMAN. Not given in 1913-14

108—Railroad problems, economic, social and legal. 2 hours. Professor SELIGMAN. Not given in 1913-14

109—History of socialism. 2 hours. Professor SIMKHOVITCH. Not given in 1913-14

114—Marx and post-Marxian socialism. 2 hours. Professor SIMKHOVITCH

119—Economic History. 2 hours. Professor SIMKHOVITCH. Not given in 1913-14

125—The Economic Problems of Germany. 2 hours. Professor RATHGEN

201—Economic readings—I: Classical English economists. 2 hours. Professor SEAGER

202—Economic readings—II: Contemporary economists. 2 hours. Professor SEAGER

203—History of economics to Adam Smith. 2 hours. Professor SELIGMAN

204—History of economics since Adam Smith. 2 hours. Professor SELIGMAN

205—Economic theory and practical economic problems. 2 hours. Professor SCHUMPETER

206—Economic theory. Conditions of economic progress. 2 hours. Professor CLARK

207—Principles and methods of statistics. 2 hours. Professor CHADDOCK

210—Social statistics. 2 hours. Professor CHADDOCK

211—Statistical economics. I. 2 hours. Professor H. L. MOORE

212—Statistical economics. II. 2 hours. Professor H. L. MOORE

213—Types of economic theory. 2 hours. Dr. MITCHELL

242—Radicalism and social reform as reflected in the literature of the nineteenth century. 2 hours. Professor SIMKHOVITCH

301—Seminar in political economy and finance. 2 hours. Professors SELIGMAN, SEAGER, RATHGEN and SCHUMPETER

302—Seminar in political economy and finance. 2 hours. Professors SELIGMAN and SEAGER

303—Seminar in political economy and finance. 2 hours. Professors SIMKHOVITCH and MUSSEY

304—Seminar in political economy and finance. 2 hours. Professors SIMKHOVITCH and MUSSEY

- Summer**
- sX1-X2—Elementary bookkeeping. 2 points. Mr. KOOPMAN
- s1—Introduction to economics. 3 points. Professor AGGER
- s11—Industrial combinations and trusts. 2 points. Dr. STEVENS
- s105—The labor problem. Professor McCREA
- s110—Economic and social reform. Professor McCREA
- s112—Money and Banking. 2 points. Professor AGGER
- s120—Corporation finance. 2 points. Dr. ANDERSON
- s201—Principles and methods of statistics. Professor CHADDOCK
- s205—Modern economic theories. Dr. ANDERSON
- s210—Standard of living and public health. Professor CHADDOCK

- e1-2—Principles of economics. 3 points each half-year. Dr. STEVENS **Extension**
 e3-4—Business organization and administration. 2 points each half-year. Dr. STEVENS
 e9-10—Business and social statistics. 2 points each half-year. Professor CHADDOCK
 e11-12—Railway and water transportation. 2 points each half-year. Dr. WILLIS
 e13-14—Railway traffic and rates. 2 points each half-year. Dr. WILLIS
 e15—Advertising. 2 points first half-year. Mr. HUBBART
 e16—Salesmanship. 2 points second half-year. Mr. HUBBART
 e1-2—Corporation finance. 2 points each half-year. Dr. STEVENS
 e3-4—Money and banking. 2 points each half-year. Professor AGGER
 e5-6—Banking organization and foreign exchange. 2 points each half-year. Professor AGGER
 e7—Personal insurance. 2 points first half-year. Dr. STEVENS
 e8—Property insurance. 2 points second half-year. Dr. STEVENS
 e9-10—Investments. 2 points each half-year. Mr. KEYS
 e11-12—Public finance. 2 points each half-year. Dr. HAIG

- 108A—Educational Sociology—Introductory Course: Social Theory **Sociology**
 of Education. 2 hours. Professor SUZZALLO
 108B—Educational Sociology—Introductory Course: Social Interpretation of Educational Methods. 2 hours. Professor SUZZALLO
 151—Principles of sociology, analytical: theories of social organization and progress. 2 hours. Professor TENNEY
 152—Principles of sociology, descriptive: problems of social organization and progress in America. 2 hours. Professor TENNEY
 171—Social classes. 1 hour. Professor SCHUMPETER
 208—Educational sociology—Advanced course: the public school and democracy. 2 hours. Professor SUZZALLO
 251—Social evolution: ethnic and civil origins. 2 hours. Professor GIDDINGS
 252—Social evolution: civilization, liberty, and democracy. 2 hours. Professor GIDDINGS
 255—Principles and methods of statistics—Lectures and laboratory. 2 hours. Professor CHADDOCK
 256—Social statistics—Lectures and laboratory. 2 hours. Professor CHADDOCK
 257—The evolution of progressive society. 2 hours. Professor GIDDINGS
 258—The theory of social evolution. 2 hours. Professor GIDDINGS

261—Primitive institutions, Paganism and Christianity. 2 hours. Professor SHOTWELL

313—General seminar. Studies in Social Evolution. 2 hours. Professor GIDDINGS

314—General seminar. Studies in Social Evolution. 2 hours. Professors GIDDINGS

315—Seminar in modern social problems. 2 hours. Professor TENNEY

316—Seminar in modern social problems. Professor TENNEY

317—Advanced seminar. Problems and methods of sociological research. 2 hours. Professor GIDDINGS

318—Advanced seminar. Dissertations in preparation. 2 hours. Professor GIDDINGS

Summer s101—Principles of sociology, analytical. 2 hours. Professor ELLWOOD.

s102—Principles of sociology, historical. 2 hours. Professor GIDDINGS

s311—Seminar in problems and methods. 2 hours. Professor GIDDINGS

s315—Seminar in psychological sociology. 2 hours. Professor ELLWOOD

Extension e141—Social institutions. Lectures, readings and discussions. 2 hours. Mr. SHENTON

e142—Social problems. Lectures, readings and discussions. 2 hours. Mr. SHENTON

e151—Principles of sociology. Lectures, readings, discussions and exercises. 2 hours. Mr. SHENTON

e152—Historical evolution of society. Lectures, readings and discussions. 2 hours. Mr. SHENTON

281—History and development of social work. 2 hours. Professor DEVINE

282—History and development of social work. 2 hours. Professor DEVINE

283—Social legislation. I: factory and workshops. 2 hours. Professor LINDSAY

284—Social legislation. II: humane legislation. 2 hours. Professor LINDSAY

[285—The standard of living. 2 hours. Professor DEVINE]

[286—Social aspects of crime and abnormality. 2 hours. Professor DEVINE]

[287—Social legislation. III: urban and rural community life. 2 hours. Professor LINDSAY]

[288—Social legislation. IV: methods and tendencies in law-making. 2 hours. Professor LINDSAY]

291-292—History and development of social work. 3 hours. Professors DEVINE and LINDSAY

293-294—Principles and technique of social work. 3 hours. Mr. LEE and Mr. THURSTON

295-296—The scientific basis of social work. 2 hours. Dr. WATSON

321—Seminar in social economy. 2 hours. Professor DEVINE

322—Seminar in social economy. 2 hours. Professor DEVINE

323—Seminar in social legislation. 2 hours. Professor LINDSAY

324—Seminar in social legislation. 2 hours. Professor LINDSAY

The Library facilities are unexcelled. Every journal of importance, **Equipment** American or foreign, dealing with economics or social science, is taken regularly by the Library. Any book needed by advanced students can usually be bought at once. The special library of history and political science alone comprises more than eighty thousand volumes.

Students of economics and social science will find in New York unrivaled library facilities. In addition to the University Library, there are the New York Public Library on the Astor, Lenox, and Tilden foundation, New York Historical Library, Long Island Historical Library, Library of the New York School of Philanthropy, the Bar Association Library, and the Law Institute Library, to each of which students have access under favorable conditions. Advanced students also have at their disposal the library of the McVickar Professor of Political Economy which contains an important collection of works on earlier economics.

The facilities offered to students of sociology and social economy include a large library of general and special works, on sociological theory, the history of the family, pauperism, crime, and penology. Arrangements have been made with the Charity Organization Society, the State Charities Aid Association, the University Settlement, the East Side House, and the Brooklyn Bureau of Charities by which students can become fully acquainted with actual work among the people and with the most perfect methods.

The Statistical Laboratory, conducted by Professor Chaddock, is equipped with the Hollerith tabulating machines, comptometers, and all other modern facilities.

Students also have the privilege of attending all of the courses in the School of Philanthropy conducted by the Charity Organization Society.

EDUCATION

The School of Education of Teachers College is the Division of Education of Columbia University. In the section of the Catalogue devoted to Teachers College (see Table of Contents) will be found a list of its officers and a statement of its equipment for instruction and research in education.

All Teachers College courses are open to men and women on equal terms. For the significance of course numbers see page 60.

A full statement of the nature of each of the following courses, the work prerequisite to it, and the credit which may be received for it in partial fulfilment of the requirements for the several degrees and diplomas, and similar statements concerning nearly 200 semi-professional courses offered by the School of Education and the School of Practical Arts of Teachers College, but not listed here, will be found in the current edition of the Announcement of the School of Education of Teachers College.

History of Education B—History and principles of education. 3 hours. Professors MONROE, SUZZALLO, GOODSELL and KILPATRICK

B (a and b)—History of education—Special sections for students in Household and Industrial Arts. 2 hours

B(b)—History of education in modern times. 1 hour. Professor GOODSELL

103-104—Educational theories of the nineteenth century and their relation to school practice. 2 hours. Professor KILPATRICK

201-202—History of education—Advanced graduate section of Course B, above. 2 hours. Professor MONROE

201A-202A—History of education. Special section of course 201-202, above. 2 hours. Professors MONROE and KILPATRICK

203-204—Practicum—History of education in the United States. 2 hours. Professor MONROE

[203A-204A—Practicum—History of education in England. Professor MONROE]

303-304—Seminar—The historical foundations of modern education. Professor MONROE

Philosophy of Education B(c)—Principles of education. 1 hour. Professor SUZZALLO

[5—Logic as applied to problems of teaching. 2 hours. Professor DEWEY]

7—Social life and the school curriculum. 2 hours. Professor DEWEY

105-106—Philosophy of education. 2 hours. Professor MACVANNEL

108A-108—Educational sociology. 2 hours. Professor SUZZALLO

205-206—Practicum—Philosophy of education. 2 hours. Professor MACVANNEL

[207-208—Practicum—Educational sociology. 2 hours. Professor SUZZALLO]

210—Practicum—Historical relations of philosophy and education. 2 hours. Professor DEWEY

305-306—Seminar—Philosophy and sociology of education. Professors MACVANNEL, DEWEY, and SUZZALLO

- 111-112—School administration. 2 hours. Professor DUTTON **Educational Administration**
- 114—Comparative education. 3 hours. Professor FARRINGTON
- 113a-114a—American education and social institutions. 2 hours. Professors FARRINGTON and HILLEGAS
- 115—Organization and administration of school systems. 2 hours. Professor STRAYER
- 214—Practicum—Comparative education. 2 hours. Professor FARRINGTON and Dean RUSSELL
- 215—Practicum—Administration of public education in the United States. 2 hours. Professor STRAYER
- 311-312—Seminar—Educational administration. Dean RUSSELL and Professors DUTTON, STRAYER, and FARRINGTON
- 316—Seminar—Administration of institutions for the training of teachers. Dean RUSSELL and Professor MCFARLANE
- A—General and educational psychology. 1 hour lectures. 2 hours conferences. Professors THORNDIKE, NORSWORTHY, RUGER, and Dr. WHITLEY **Educational Psychology**
- 19-20—Educational psychology. 2 hours. Dr. WHITLEY and Professor NORSWORTHY
- 21-22—The psychology of childhood. 2 hours. Professor NORSWORTHY and Dr WHITLEY
- 23-24—The psychology and treatment of exceptional children. 1 hour. Dr. BISCH
- 117-118—The applications of experimental and physiological psychology to education. 2 hours. Professor RUGER
- 120—The applications of analytic and genetic psychology to education. 2 hours. Professor NORSWORTHY
- 121-122—Educational psychology, advanced course. 2 hours. Professor THORNDIKE
- 123—The psychology of the elementary school subjects. 2 hours. Professor THORNDIKE
- 221-222—Educational psychology. 2 hours. Professor THORNDIKE
- 223-224—Practicum—The application of psychological and statistical methods to education. 2 hours. Professor THORNDIKE
- 321-322—Seminar—Educational psychology. Professor THORNDIKE
- 125-126—Secondary education, general course. 3 hours. Professors SACHS and STEVENS **Secondary Education**
- 127-128—Secondary education, advanced course. 3 hours. Professors SACHS and STEVENS
- 129-130—The conduct of the recitation in secondary schools. 2 hours. Professor STEVENS
- 225-226—Supervision of instruction in secondary schools. 2 hours. Professors SACHS and STEVENS

[227-228—Secondary education in Germany. 2 hours. Professor SACHS]

229-230—Practicum—Secondary education. 2 hours. Professor SACHS

325-326—Seminar in secondary education. Professor SACHS

153-154—The teaching of biological sciences in secondary schools. 3 hours. Professor BIGELOW and Miss BROADHURST

156—Biology as related to education. 2 hours. Professor BIGELOW

184—Teaching of nature-study. 2 hours. Professors BIGELOW and WOODHULL

253-254—Practicum in the teaching of biological sciences in secondary and normal schools. 2 hours. Professor BIGELOW

65-66—The teaching of speech. 2 hours. Professor LATHAM

65a-66a—The teaching of speech. Half of above course. 1 hour. Professor LATHAM

161-162—The teaching of English in secondary schools. 3 hours. Professor BAKER

259—Principles of English usage. 2 hours. Professor KRAPP

261-262—Practicum in the teaching of English in secondary schools. 2 hours. Professor BAKER

63-64—Theory and practice of teaching art. 3 hours. Professor DOW

163-164—Supervision of fine arts. 2 hours. Professor DOW

263-264—Practicum—Advanced studies in art education, art criticism, and technical work. Professor DOW

165-166—The teaching of French. 3 hours. Professor COHN

167-168—The teaching of geography. 3 hours. Professor DODGE and Miss KIRCHWEY

267-268—Practicum in geography. Professor DODGE

169-170—The teaching of German in secondary schools. 3 hours. Professor BAGSTER-COLLINS

269-270—Practicum in German. Professor BAGSTER-COLLINS

173-174—The teaching of history in secondary schools. 3 hours. Professor JOHNSON

273-274—Practicum in history. 2 hours. Professor JOHNSON

175-176—The teaching of Latin in secondary schools. 3 hours. Professor LODGE

275-276—Practicum in Latin—Caesar and Vergil. 2 hours. Professor LODGE

375-376—Seminar—Problems in Latin syntax. Professor LODGE

179-180—The teaching of mathematics in secondary schools. 3 hours. Professor SMITH

179A-180A—The teaching of applied mathematics. 3 hours. Mr. BRECKENRIDGE

279-280—Practicum in the history and teaching of mathematics. 2 hours. Professor SMITH

379-380—Seminar in the history and teaching of mathematics. Professor SMITH

81-82—The teaching of school music. 3 hours. Professor FARNSWORTH and Miss LATHAM

[83A-84A—Theory and practice of music education for advanced students of piano. 1 hour. Mr. CADY]

181-182—Supervision of school music. 2 hours. Professor FARNSWORTH

281-282—Practicum in the teaching of school music. Professor FARNSWORTH

87—Personal hygiene and sanitation. 3 hours. Professor WOOD

88—Educational hygiene. 3 hours. Professor WOOD

89-90—The teaching of hygiene in the elementary grades. 1 hour. Miss REESOR

187-188—Hygiene of childhood and adolescence. 1 hour. Professor WOOD

189-190—The teaching of physical education. 3 hours. Professor WOOD and Assistants.

287-288—Hygiene of childhood and adolescence. 1 hour. Professor WOOD

289-290—Practicum in physical education. 2 hours. Professor WOOD

191-192—The teaching of physical science in secondary schools. 3 hours. Professor WOODHULL

291-292—Practicum in physical science. 2 hours. Professor WOODHULL

391-392—Seminar in the history and teaching of physical science. Professor WOODHULL

2—Principles of teaching. 4 hours. Professors HILLEGAS, SUZZALLO, and BONSER **Elementary Education**

131a, b, c-132a, b, c—Theory and practice of teaching in elementary schools. 5 hours. Professors HILLEGAS, BAKER, DODGE, SMITH, UPTON, BIGELOW, and JOHNSON

131d-132d—Theory and practice of teaching in elementary schools. Class work of above course. 2 hours. Professor HILLEGAS

133—Criticism and supervision of instruction in the elementary school. 2 hours. Professor McMURRY

141-142—The unification of the kindergarten and the primary school. 2 hours. Miss MOORE

231—Criticism and supervision of instruction in the elementary school. 3 hours. Professor McMURRY

233-234—Practicum—Current problems in elementary education. 2 hours. Professor HILLEGAS

333-334—Seminar. Professors McMURRY and HILLEGAS

65-66—The teaching of speech. 2 hours. Professor LATHAM

65a-66a—The teaching of speech. Half of above course. 1 hour.
Professor LATHAM

63-64—Theory and practice of teaching art. 3 hours. Professor DOW

163-164—Supervision of fine arts. 2 hours. Professor DOW

263-264—Practicum—Advanced studies in art education, art criticism,
and technical work. Professor DOW

67-68—The teaching of geography in elementary schools. 1 hour.
Miss KIRCHWEY

79-80—Teaching of mathematics in elementary schools. 1 hour.
Professor UPTON

81-82—The teaching of school music. 2 hours. Professor FARNS-
WORTH

81A-82A—Vocal and instrumental music for the kindergarten. 1 hour.
Mr. CADY

83-84—Theory and practice of music education for elementary students
of piano. 1 hour. Mr. CADY

181-182—Supervision of school music. 2 hours. Professor FARNS-
WORTH

184—The teaching of nature study. 2 hours. Professors BIGELOW
and WOODHULL

88—Educational hygiene. 3 hours. Professor WOOD

89-90—The teaching of hygiene in the elementary grades. 1 hour.
Miss REESOR

189-190—The teaching of physical education. 2 hours. Professor
WOOD

39-40—Plays and games for little children. 1 hour. Miss BURKE
and Miss ROBINSON

Kindergarten Education

41-42—Kindergarten principles. 2 hours. Miss SMITH

43-44—The home and the conservation of childhood. 2 hours. Miss
ATKINSON

45-46—Theory and practice of kindergarten teaching. 2 hours. Pro-
fessor HILL and Miss BROWN

47-48—The primary school: its methods and subject matter. 2 hours.
Miss MOORE

141-142—Unification of the kindergarten and the primary school. 2
hours. Miss MOORE

143-144—Kindergarten conference. 3 hours. Professor HILL

145-146—Curricula for kindergarten normal schools and problems in
kindergarten supervision. 3 hours. Professor HILL

Four other, introductory, courses in kindergarten are also given.

Religious Education

Biblical Literature 53—The religion of the Old Testament. 2 hours.
Professor BEWER

Biblical Literature 54—The religion of the New Testament. 2 hours.
Professor BEWER

Education 57-58—The teaching of household arts. 2 hours. Pro- **Technical**
fessors KINNE and COOLEY, and Miss WINCHELL **Education**

Education 157-158—Supervision and critic teaching in the household
arts. 2 hours. Professors KINNE and COOLEY

Education 257-258—Practicum in household arts. 2 hours. Pro-
fessors KINNE and COOLEY

86—Teaching and administration in public health nursing. 1 hour.
Miss CRANDALL

185—Teaching in schools of nursing. 2 hours. Miss STEWART

186—Administration of schools of nursing. 2 hours. Professor
NUTTING

285—Practicum in nurses' education. 2 hours. Professor NUTTING

77-78—Industrial arts for the elementary grades. 4 hours. Miss
PATRICK

77a-78a—Abbreviated course. 3 hours. Miss PATRICK

177-178—Teaching industrial arts. 3 hours. Professors MORGAN,
BONSER, NOYES, WEICK, and SLEFFEL

277-278—Practicum in industrial education. 2 hours. Professor
BONSER

131—Experimental cookery. 3 hours. Professor VAN ARSDALE and **Household**
Miss FRENCH **Arts Educa-**

165-166—Household economics, advanced. 2 hours. Professor AN-
DREWS

294—Practicum in household and institutional administration. 2
hours. Professor NUTTING

121-122—Household chemistry, advanced. 6 hours. Professor VULTÉ

130—Sanitary chemistry. 4 hours. Professors VULTÉ and BIGELOW
and Miss VANDERBILT

125—Physiological chemistry. Professor GIES and Dr. SEAMAN

127—Physiological chemistry, advanced. 6 hours. Professor GIES
and Dr. SEAMAN

129—Sanitary chemistry. 4 hours. Dr. SEAMAN

110—Dietetics. Professor ROSE

115—Nutrition and food economics. 2 hours. Professors SHERMAN
and ROSE

117—Laboratory methods in nutrition. 4 hours. Professor ROSE
and Miss McCORMICK

215-216—Practicum in nutrition and food economics. 2 hours. Pro-
fessor SHERMAN

218—Investigation in nutrition and food economics. Professors SHER-
MAN and ROSE

185-186—Public health investigation. Dr. WINSLOW

ELECTRICAL ENGINEERING

Professors: ¹CROCKER, SLICHTER (*Executive Officer*)

Assistant Professors: ARENDT, MORECROFT

Instructors: HEHRE, MASON

Assistants: ARMSTRONG, HAMILTON, HILL

Professors M. I. PUPIN and A. P. WILLS of the Department of Physics give instruction in electro-mechanics to the Electrical Engineering students.

See the statement of the Department of Physics.

For the significance of course numbers see page 60

2—Elements of dynamo-electric machinery. 2 hours. Professors ARENDT and MORECROFT

4—Electric distribution, for Civil, Mechanical, Mining, and Metallurgical Engineering students. 2 hours. Professor SLICHTER

5—Alternating-current engineering. 105 abridged. 1 hour. Professor ARENDT

52—Design of direct-current machinery. 2 hours and 1 afternoon. Professor ARENDT

54—Design of alternating-current machinery. 2 hours and 1 afternoon. Professor SLICHTER

72—Direct-current laboratory—Short course for students in Mining, Civil, Metallurgical, Sanitary, and Chemical Engineering. 1 hour and 1 afternoon. Messrs. HEHRE, MASON, and Assistants

73—Direct-current laboratory—Short course for students in Mechanical Engineering. 1 hour and 1 afternoon. Mr. HEHRE and Assistants

75—Alternating-current laboratory—Short course for students in Mining, Metallurgical, and Mechanical Engineering. 1 hour and 1 afternoon. Professor MORECROFT and Messrs. HEHRE, MASON, and Assistants

76—Alternating-current laboratory. Same as E. E. 75. For students in Civil Engineering. 1 hour and 1 afternoon. Professor MORECROFT and Messrs. HEHRE, MASON, and Assistants

98—Thesis—Original work and report on a subject approved by the head of the department. Optional

101—Generator and motor practice—Principles, construction, operation, and testing. 1 hour. Professor SLICHTER

103—Electric motor—Electric motors, their action, control, and application. 3 hours. Professor ARENDT

103A—Electric motors—103 abridged for Mechanical Engineering students. 2 hours. Professor ARENDT

104—Electric distribution—Principles and methods of transmitting and distributing direct and alternating currents. 3 hours. Professor ARENDT

105—Alternating-current engineering. 3 hours. Professor SLICHTER

¹ Absent on leave 1912-1913.

105A—Alternating-current engineering—**105** abridged for Mechanical Engineering students. 2 hours. Professor SLICHTER

106—Electric plants—Operation, organization, and administration. 2 hours. Professors SLICHTER and ARENDT and special lecturers

108—Plant inspection. 3 hours. Professors SLICHTER and ARENDT

109-110—Telegraphy and telephony. 1 hour. Professor ARENDT

112—Electric railways—Their design, installation, and operation. 2 hours. Professor SLICHTER

112A—Electric railway—For students in Civil Engineering. 2 hours. Professor SLICHTER

173-174—Direct-current laboratory—Practice in the use of instruments and in the operation and testing of direct-current dynamos and motors. 2 hours and 2 afternoons first term. 1 hour and 1 day second term. Mr. HEHRE and Assistants

175-176—Alternating-current laboratory—Practice in the use of instruments and in the operation and testing of alternating-current generators, motors, and transformers. 1 hour and 1 day. Professor MORECROFT

177—Instrument laboratory, electrical measurements, storage-battery testing, photometry of electric lamps. 1 hour and 2 afternoons. Mr. MASON

For Mechanics **107**, **108**, **109**, **110**, see Physics, page 154

s2—Elements of dynamo-electric machinery. 5 hours. Professor **Summer** MORECROFT. (First three weeks)

s4—Principles of electrical distribution. 5 hours. Professor MORECROFT. (Second three weeks)

e1—Elements of dynamo-electric machinery. 2 evenings a week first **Extension** term. Mr. HAMILTON

e2—Principles of electrical distribution. 2 evenings a week second term. Mr. HAMILTON

e3—Alternating-current engineering. 2 evenings a week first term. Mr. HEHRE

e4—Alternating-current engineering. 2 evenings a week second term. Mr. HEHRE

The offices, laboratories, museums, and lecture-rooms of the Electrical **Equipment** Engineering Department are in the Engineering Building.

The laboratories located in the basement contain direct and alternating-current machinery and apparatus. The various machines in these laboratories are, respectively, examples of constant-potential generators, constant-current arc-lighting dynamos, many types of stationary and railway motors, and motor-dynamos. Complete sets of ampere, volt, and watt meters, speed indicators, transmission and absorption dynamometers are available for testing the various generators and motors.

The alternating-current apparatus includes single-phase and polyphase generators, induction and synchronous motors, rotary converters, mercury arc rectifiers, and various types and sizes of transformers. Test boards and complete sets of alternating-current measuring instruments and curve-tracing apparatus, such as an oscillograph and ondograph, are also provided.

The lecture-rooms are provided with an ample supply of electrical currents of different forms, and other facilities for experimental demonstrations. The museum contains collections of apparatus, models, and materials relating to electrical engineering.

The large instrument laboratory on the third floor contains various forms of galvanometers, ampere balances, potentiometers, standard cells and resistances, measuring apparatus, laboratory standard volt and ammeters, as well as the high-tension testing sets. A storage battery is provided for testing, calibration, and standardization purposes.

The photometric laboratory of this department is situated in the basement of Havemeyer Hall and it is equipped with various forms of photometers for gas, arc, and incandescent lamp testing.

ENGLISH AND COMPARATIVE LITERATURE

Professors: BAKER, BALDWIN, BREWSTER, FLETCHER, GILDERSLEEVE, KRAPP, MATTHEWS, ODELL, THORNDIKE (A. H.) (*Executive Officer*), and TRENT

Associate Professors: ERSKINE, HUBBARD, and LAWRENCE

Assistant Professors: ABBOTT, AYRES, LATHAM, and TASSIN

Associate: WEEKS (M. F.)

Instructors: DANA, HALLER, HOWARD, LOMER, PATTERSON, POWELL, STEEVES, TAYLOR, VAN DOREN, WRIGHT

Lecturers: LAPE and STURTEVANT (E.)

For the significance of course numbers see page 60

English A—English composition. 3 hours. Professor ODELL, Dr. STEEVES, Dr. WRIGHT, Dr. VAN DOREN, Dr. DANA, Dr. TAYLOR and Mr. POWELL (Columbia College); Professors BALDWIN and HUBBARD, Miss WEEKS, Mr. HALLER, Miss HOWARD, Miss STURTEVANT and Miss LAPE (Barnard College)

B—English literature and composition. 2 hours (Columbia); 3 hours (Barnard). Professor ERSKINE, Dr. DANA, Dr. TAYLOR and Mr. POWELL (Columbia); Professors BALDWIN and HUBBARD, Mr. HALLER, Miss HOWARD, Miss STURTEVANT and Miss LAPE (Barnard)

1-2—English composition—Daily themes and fortnightly essays, lectures, and consultations. 3 hours. Professor TASSIN (Columbia); Professor BREWSTER (Barnard)

7 or 8—Vocal training and elocution. 2 hours. Professor TASSIN (Columbia and Barnard)

11-12—Public speaking. 3 hours. Professor TASSIN (Columbia)

[15-16—English versification. 2 hours. Professor BRANDER MATTHEWS (Columbia)]

17-18—English modern literature. 2 hours. Dr. STEEVES (Columbia)

19-20—American literature. 2 hours. Professor BRANDER MATTHEWS (Columbia); Professor BAKER (Barnard)

21-22—English literature from 1780 to 1830. 3 hours. Professor ERSKINE (Columbia)

23-24—English literature from 1830 to 1890. 3 hours. Professor ODELL (Columbia)

[25-26—English literature from 1557 to 1660. 3 hours. Professor ERSKINE (Columbia); Professor TRENT (Barnard)]

(Courses 25-26 and 27-28 are given in alternate years)

27-28—English literature from 1660 to 1780. 3 hours. Dr. VAN DOREN (Columbia); Professor TRENT (Barnard)

29-30—English literature from the earliest period to the Norman conquest. 3 hours. Professor AYRES (Columbia); Professor KRAPP (Barnard)

31-32—English literature from the Norman conquest to 1557. 3 hours. Professor AYRES (Columbia); Professor BALDWIN (Barnard)

(Course 31-32 is not given at Columbia in 1913-14)

33-34—English literature of the Victorian period. 3 hours. Professor HUBBARD (Barnard)

35-36—Shakespeare. 2 hours. Professor LAWRENCE and Professor ODELL (Columbia); 3 hours. Dr. WRIGHT (Barnard)

37-38—English prose, including fiction. 2 hours. Professor BREWSTER (Barnard). English criticism, with special attention to theories of poetry. Professor ERSKINE (Columbia)

39-40—The development of English fiction. 2 hours. Professor BRANDER MATTHEWS (Columbia)

[41-42—The development of the English drama. 2 hours. Professor ODELL (Columbia) and Professor Tassin (Barnard)]

45-46—English literary criticism. 2 hours. Professor HUBBARD (Barnard)

201—Composition. 2 hours. Professor BALDWIN

205—Principles of English usage. 2 hours. Professor KRAPP

207-208—History of the English language. 2 hours. Professor KRAPP

[212—English sounds. A course in the phonetic history of the language. 2 hours. Professor KRAPP]

[213—Historical English grammar. 2 hours. Professor KRAPP]

215—Anglo-Saxon prose. 2 hours. Professor AYRES

[216—Caedmon and Cynewulf. 2 hours. Professor LAWRENCE]

218—Beowulf. 2 hours. Professor AYRES

[219-220—Middle English language and literature. 2 hours. Professors KRAPP and AYRES]

- [222—History of Anglo-Saxon literature. 2 hours. Professor AYRES]
 227-228—Chaucer. 2 hours. Professor AYRES
 230—Spenser. 2 hours. Professor FLETCHER
 [231-232—English literature in the seventeenth century. 2 hours. Professor TRENT]
 233-234—English literature in the eighteenth century. 2 hours. Professor TRENT
 (Courses 231-232 and 233-234 are given in alternate years.)
 235-236—English literature in the first half of the nineteenth century. 2 hours. Professor THORNDIKE
 237-238—English literature, 1832-1880. 2 hours. Dr. VAN DOREN and Professor THORNDIKE
 [243-244—Shakespeare as a playwright. 2 hours. Professor BRANDER MATTHEWS]
 [247-248—English comedy: its history and its methods. 2 hours. Professor BRANDER MATTHEWS]
 [251-252—The development of the drama. 2 hours. Professor THORNDIKE]
 253-254—Textual criticism of Shakespeare plays. 2 hours. Professor THORNDIKE and Dr. WRIGHT
 [258—The English lyric in the sixteenth and seventeenth centuries. 2 hours. Professor ERSKINE]
 259-260—English prose from Wiclif to Bacon. 2 hours. Professor KRAPP
 [261-262—English prose in the eighteenth century. 2 hours. Professor ODELL]
 263-264—English prose in the nineteenth century. 2 hours. Professor ODELL
 267-268—American literature. 2 hours. Professor ERSKINE
 269-270—English literary criticism. 2 hours. Professor BREWSTER
 301-302—Seminar—Studies in Elizabethan drama. 2 hours. Professor THORNDIKE
 305-306—Seminar—Studies in the seventeenth and eighteenth centuries. 2 hours. Professor TRENT
 307—Seminar—English and Scottish popular ballads. 2 hours. Professor LAWRENCE
 309-310—Seminar—Discussion of dissertations. Professors TRENT, FLETCHER, THORNDIKE, KRAPP, LAWRENCE, AYRES, and Dr. WRIGHT

**Undergraduate Courses
in Teachers
College**

- 51-52—English speech. 2 hours. Professor LATHAM and Assistant
 53-54—Reading and story-telling. 2 hours. Professor LATHAM
 57-58—Reading and speaking. Advanced course. 2 hours. Professor LATHAM
 71-72—Nineteenth century writers. 2 hours. Professor BAKER and Miss HILL

75-76—Typical forms of literature. 2 hours. Professor SYKES and Miss EGAN

272—Development of rhetorical theory. 2 hours. Professor BALDWIN **Comparative Literature**

273—Medieval heroic poetry. 2 hours. Professor LAWRENCE

275-276—Dante and medieval culture. 2 hours. Professor FLETCHER

277—The medieval lyric. 2 hours. Dr. PATTERSON

281-282—The Renaissance in Europe: Introductory course. 2 hours. Professor FLETCHER

284—Classical influences in Elizabethan literature. 2 hours. Professor AYRES

285-286—Classicism in the seventeenth and eighteenth centuries. 2 hours. Dr. DANA and Dr. VAN DOREN

287-288—The romantic movement. 2 hours. Dr. WRIGHT

291-292—The development of the drama from the Greeks to the middle ages. 2 hours. Professor BRANDER MATTHEWS

293-294—Molière and Restoration comedy. 2 hours. Professor BRANDER MATTHEWS

307-308—Seminar—English philosophical poetry before the Restoration. Professor FLETCHER

309-310—Seminar—Discussion of dissertations. 2 hours. Professors TRENT, FLETCHER, THORNDIKE, KRAPP, LAWRENCE, AYRES and Dr. WRIGHT

sA1—Rhetoric and English composition. 2 points. Professors BALDWIN and DENNY, Messrs. HOOVER, CLARK, and Miss FOX **Summer**

sA2—English composition. 2 points. Professor ABBOTT and Mr. HALLER

s1—Advanced composition. 2 points. Professor ABBOTT
This course is limited to 20 students.

s19—American literature. 2 points. Professor DENNY

s23—English literature from 1780 to 1830. 2 points. Professor ERSKINE

s27—English literature from 1660 to 1780. 2 points. Professor DENNY

s35—Shakespeare. 2 points. Professor CHANDLER

s39—English fiction. 2 points. Professor HOWE

s7—Voice training and the elements of vocal expression. 2 points. Mr. PORTER

s11—Public speaking. 2 points. Mr. PORTER

s13—Vocal interpretation of English prose and poetry. Professor WINTER and Mr. TALCOTT

s14—Debating. Professor WINTER and Mr. PORTER. Public reading. Professor WINTER

- s1b—The technique of the short story. Professor PITKIN
 s129—Anglo-Saxon. Professor BROWN
 s130—Chaucer. Professor BROWN
 s231—Milton and his contemporaries. Professor TRENT
 s232—Defoe and the rise of English journalism. Professor TRENT
 s251—The English drama from the beginning to 1642. Professor THORNDIKE
 s267—American literature. Professor ERSKINE
 s291—Dramatists of the nineteenth century. Professor CHANDLER

Extension

- eV1-V2—English for foreigners. Mr. DUNCAN
 eW1-W2—English grammar and composition. Mr. DUNCAN
 eX1-X2—College entrance English. Mr. GASTON
 eY1-Y2—College entrance English. Mr. MITCHELL and Mr. DUNCAN
 Commercial English e1-2—Business English and commercial correspondence. Mr. DUNCAN
 eA1-A2—English composition. 3 points. Dr. WOLFF, Mr. HALLER and Mr. CLARK. Also in Brooklyn, Dr. MILES; and in Paterson, Dr. TAYLOR
 eA3-A4—English composition. 1½ points. Dr. WOLFF
 eB1-B2—English literature and composition. 2 points. Dr. WOLFF
 e1a-2a—English composition. Advanced. 1½ points. Dr. WOLFF
 e1b-2b—English composition. The short story. Miss WILLIAMS
 e1c-2c—English composition. Advanced. Theory of fiction writing. Miss WILLIAMS
 e11a-12a—Public speaking. 2 points. Mr. DOW and Mr. HALLIDAY
 e17-18—Modern literature, English and foreign. 2 points. Dr. STEEVES
 e19-20—The history of American literature. 2 points. Dr. VAN DOREN
 e21-22—English literature from 1780 to 1830. 2 points. Dr. PATTERSON. Also given in Elmhurst
 e23-24—English literature from 1830 to 1890. 2 points. Professor TUCKER. Also given in Paterson. Dr. TAYLOR
 [e31-32—Fourteenth-century literature. 2 points. Dr. PATTERSON]
 e35a-36a—Shakespeare. 2 points. Professor TASSIN
 e41-42—Development of the drama. 2 points. Dr. HALL. Also given in Brooklyn. Mr. HAMILTON
 e41a-42a—Contemporary dramatic literature. 2 points. Mr. HAMILTON
 [e49a-50a—Sentence analysis. 1 point. Miss COOK]
 e51a-52a—English phonetics. 2 points. Professor GERIG
 [e61a-62a—Oral composition in elementary schools. 1 point. Miss COOK]
 e211-212—Principles of phonetics. Mr. PIERCE

FINE ARTS

(See Architecture, Music, and Design)

In addition thirty courses in Fine Arts are offered under the auspices of Teachers College. For details see the *Announcement of the School of Practical Arts*.

See also the Statement of the Faculty of Fine Arts, page 321.

FRENCH (see page 162)

GEOGRAPHY

Professors: DODGE and MCFARLANE

Associate Professor: D. W. JOHNSON

Instructors: KIRCHWEY (C. B.), WRIGHT

See introductory paragraphs, page 60

1-2—Elements of physical and industrial geography. 2 hours. Miss KIRCHWEY

51-52—General geography. 3 hours. Professor DODGE and Miss KIRCHWEY

51a-52a—General geography. 1 hour. Miss KIRCHWEY

55—Geography for primary grades. 2 hours. Miss KIRCHWEY

56—Man and his environment. 2 hours. Professor DODGE

Geography 57—Elements of industrial geography. 2 hours. Professor DODGE

101-102—The geography of the United States and western Europe. 2 hours. Professor DODGE and Miss KIRCHWEY

See also Education 67-68, 167-168, 267-268

s25—Physical geography and its economic aspects. 2 points. Pro-
fessor D. W. JOHNSON and Dr. WRIGHT

s27—Physiography of the eastern United States. 2 points. Professor D. W. JOHNSON and Dr. WRIGHT

s28—[Physiography of the western United States.] Professor D. W. JOHNSON

The Department of Geography occupies a suite of three rooms on the fourth floor of Teachers College. A lecture-room and laboratory capable of holding fifty, an office, and a combined office and stock-room compose the suite. The department is furnished with lantern slides, models, and wall maps; and has a set of the more important weather instruments in an outdoor shelter. The supply of topographic, climatic, and special maps, of diagrams, of physical models, and of lantern slides is large, and has been especially chosen for use in the several courses.

GEOLOGY

Professors: GRABAU and KEMP (*Executive Officer*)

Associate Professors: BERKEY and JOHNSON (D. W.)

Assistant Professor: OGILVIE

Curator: BERKHEIMER

Lecturer: RÆDER

Assistants: SMITH and VAN TUYL

See introductory paragraphs, page 60

1-2—General geology. *C* 2 hours, *L* 2 hours. Professors GRABAU, BERKEY and JOHNSON, and Mr. VAN TUYL

4—Petrography. *C* 2 hours, *L* 4 hours for two months. Compare Mineralogy 6. Professor BERKEY

5-6—General geology. 3 hours. Professors KEMP and BERKEY

15—Elementary paleontology. *C* 1 hour, *L* 2 hours. Professor GRABAU and Mr. VAN TUYL

16—Index fossils. *C* 1 hour, *L* 6 or more hours. Prerequisite, Course 1-2, or 5-6. Professor GRABAU and Mr. VAN TUYL

18—General geology. *C* 3 hours. Field work on Saturdays (last six weeks). Professor BERKEY

19—Physiography—Physical features of the earth, and their effect on man—Land forms and map interpretation. May be continued with course 2. *C* 2 hours, *L* 2 hours. Professor JOHNSON

20—Rocks and soils. Origin, structure, constituents, and variety of soils. *C* 2 hours, *L* 1 hour. Professor BERKEY

51-52—Principles of geology. 2 hours. Professors GRABAU and BERKEY

105-106—Economic geology. 3 hours. Professor KEMP

107-108—Invertebrate paleontology. *C* 2 hours, *L* at least 4 hours. Professor GRABAU and Mr. VAN TUYL

110—Geological examinations and surveys—Field methods and organization. 2 hours. Professor KEMP

112—Field geology—One week field work, and report upon the same, immediately at the close of the spring examinations. Professors KEMP, GRABAU and BERKEY

113-114—Prehistoric archaeology. 20 lectures on geologic basis of archaeology. Professor BERKEY

119—Physiography of the eastern United States. Alternates with 121. Omitted in 1913. 3 hours. Professor JOHNSON

121—Physiography of the western United States. 3 hours. Professor JOHNSON. Alternates with 119. Given in 1913

151-152—Principles of geology. *C* 2 hours, *L* 4 hours or more. (51-52 with additional laboratory and library work.) Professors GRABAU and BERKEY

161-162—Field problems. Individual work under the direction of officers of the department

175—Field geology in Paleozoic rocks of eastern North America. 2 to 4 weeks in the summer. Officers of the department

201-202—Petrology. *C* 2 hours, *L* at least 4 hours. Professors KEMP and BERKEY

205-206—Comparative geology of North America—A comparative description and study of the geological formations of North America. *C* 3 hours, 4 hours reading and laboratory. Professors KEMP and GRABAU

209-210—Comparative geology of Europe. *C* 2 hours, 4 hours laboratory and library work. Professor GRABAU and Dr. BERKHEIMER

211—Phylogeny of the Gastropoda. *C* 1 hour, *L* 6 + hour. Professor GRABAU. Omitted in 1913

212—Phylogeny of the Cephalopoda. *C* 1 hour, *L* 6 + hour. Professor GRABAU. Omitted in 1914

213-214—Fossil faunas of North America. *L* 6 to 8 hours. Conference by appointment. Professor GRABAU and Mr. VAN TUYL

301-302—Paleogeography of North America. Development and changes of former continents and ocean basins. 1 hour seminar and laboratory according to arrangement. *C* 1 hour, *L* 6 hours to 2 days. Professor GRABAU. Omitted in 1913-14

303-304—Journal Club and seminar conducted by officers of the department. 2 evenings a month

307-308—Research in areal, structural, economic, or physiographic geology under officers of the department

311-312—Phylogeny of a special group of invertebrates. Research course. Professor GRABAU

315-316—Stratigraphy. Research course. Professor GRABAU

B 1-2—General geology. Elementary course. *C* 2 hours, *L* 2 hours. 6 points. Professor OGILVIE and Miss RAEDER

B1a-2a—General geology. 2 points

B 113—Summer field course—Two weeks in the field and subsequent preparation of a report. Professor OGILVIE

B115-116—Paleontology. *C* 1 hour, *L* 2 hours. Professor OGILVIE and Miss RAEDER

B117-118—Glacial geology and advanced physiography. *C* 1 hour, *L* to be arranged. Professor OGILVIE

B119-120—General geology. Advanced course. *C* and *L* to be arranged; 4, 6, or 8 hours. Professor OGILVIE and Miss RAEDER

For the courses in geography see page 109

H215—Engineering geology. Lectures, laboratory and field work. 3 hours. Professors KEMP and BERKEY

H216—Lithology. Lectures and laboratory work. 2 hours. Professors KEMP and BERKEY

- Summer** **si-sia**—General geology. 2 or 3 points. Professor GRABAU, Miss O'CONNELL and Miss KURTZ
 s2 or **s2a**—Elementary historical geology. 3 points. Professor GRABAU and Miss KURTZ
 s4—Microscopic petrography. 3 points. Mr. BOYLE
 s16—North American index fossils. 3 points. Mr. BURR
 s19—Elementary physiography. 2 or 3 points. Professor JOHNSON and Miss MOON
 s25a-25b—Elementary conchology. 2 or 3 points. Miss O'CONNELL
 s113—Field work in the vicinity of New York City. 3 points. Mr. BURR
 s119—Physiography of eastern United States. Half or full course. Professor JOHNSON and Miss MOON. Not given in 1914
 s121—Physiography of western United States. Half or full course. Given in 1914. Professor JOHNSON and Miss MOON
 s151a-151b-152a-152b in 1914. Principles of geology. 2 or more points. Half or full course. Professor GRABAU and Miss O'CONNELL
 s175 or **175a**—Stratigraphic Geology. Field work in New York State. 2 or 4 points. Half or full course. Professor GRABAU

- Extension** **e1**—General geology—a general introduction to the subject of geology. 3 points. Mr. BURR
 e2—Historical geology—the origin of the earth and its physical and organic development. 3 points. Mr. BURR
 e15—Elements of paleontology. 2 points. Miss RAEDER
 e16—North American index fossils. 2 points. Miss RAEDER
 e25-26—Elementary conchology. 2 points each half-year. Miss O'CONNELL

The following courses in paleobotany are offered at the New York Botanical Garden by Dr. ARTHUR HOLLICK:

General paleobotany—Developmental history and structure of the fossil flora of some selected locality. Laboratory and museum.

Cretaceous flora of eastern North America—Collection and determination of specimens from some station with attention to stratigraphic relations. Field and laboratory.

The department has ample laboratories and a full equipment for its several lines of work. For details see the separately printed *Announcement*.

The paleobotanical library and collections of Columbia University have been deposited at the New York Botanical Garden.

GERMANIC LANGUAGES AND LITERATURES

Professors: CARPENTER and CALVIN THOMAS (*Executive Officer*)

Associate Professors: BAGSTER-COLLINS, BRAUN, HERVEY, and TOMBO

Assistant Professors: HEUSER and REMY

Instructors: BACH (M. G.), BETZ, HASKELL, PALMBLAD, PORTERFIELD, and SCHULZE

Lecturers: RICHARD, VAN NOPPEN

For the significance of course numbers see page 60

A1-A2—Elementary course. 3 hours. Mr. PALMBLAD (Columbia); **German**
Drs. PORTERFIELD, HASKELL and BETZ (Barnard); Mr. M. G. BACH
(Teachers College)

B1-B2—Intermediate course. 3 hours. Messrs. SCHULZE and PALMBLAD (Columbia); (designated 1-2). Drs. PORTERFIELD and HASKELL (Barnard); Mr. M. G. BACH (Teachers College)

E1-E2—Course for engineering students. 3 hours. Mr. SCHULZE

J1-J2—Journalistic German. Intermediate course. 3 hours. Mr. SCHULZE

J3-J4—Journalistic German. Advanced course. 3 hours. Mr. SCHULZE

1-2—Speaking and writing German. Elementary course. 2 hours. Mr. PALMBLAD

3-4—Composition and colloquial practice. Intermediate course. 2 hours. Professor HEUSER (Columbia), Dr. BETZ (Barnard)

5-6—Selected works of Goethe, Schiller, and Lessing. 3 hours. Professors HERVEY and HEUSER (Columbia), Professor BRAUN, Drs. PORTERFIELD and BETZ (Barnard)

7-8—Modern German prose. 3 hours. Professor TOMBO (Columbia), Dr. PORTERFIELD (Barnard)

9—*Laokoön*: Lessing, Herder, Goethe. 2 hours. Mr. SCHULZE

10—Lessing's *Hamburgische Dramaturgie*. 2 hours. Mr. SCHULZE

9, 10—Advanced practice course. 2 hours. Professor BRAUN (Barnard)

11-12—Composition and colloquial practice. Advanced course. 2 hours. Professor HEUSER (Columbia). (Colloquial practice only). Dr. HASKELL (Barnard)

13-14 or 13a-14a—Nineteenth century writers. Kleist and Grillparzer. 2 or 3 hours. Survey of nineteenth century drama in third hour. Professor HEUSER

[15-16 or 15a-16a—Nineteenth-century writers. Hebbel and Hauptmann. 2 or 3 hours. Survey of nineteenth century drama in third hour. Professor HEUSER]

17-18—Life and works of Goethe. 3 hours. Professor HERVEY

[19-20—Life and works of Schiller. 3 hours. Professor HERVEY]

21, 22—Goethe. Life and selected works. 3 hours. Dr. HASKELL (Barnard)

[23, 24—Schiller. Life and selected works. 3 hours. Dr. HASKELL (Barnard)]

- 23-24—History of German civilization. 3 hours. Dr. RICHARD
- 25-26—Selected dramas of the nineteenth century. 2 hours. Professor BRAUN and Dr. HASKELL (Barnard)
- 27-28—Romantic fiction and poetry. 3 hours. Dr. PORTERFIELD (Barnard)
- 37, 38—History of German literature. 2 hours. Professor BRAUN and Dr. PORTERFIELD (Barnard)
- 39, 40—Goethe's *Faust*. First and second parts. 2 hours. Professor THOMAS (Barnard)
- 51-52—German in secondary schools. 3 hours. Professor BAGSTER-COLLINS (Teachers College)
- 53-54—Educational German. 2 hours. Professor BAGSTER-COLLINS (Teachers College)
- 61 and 101—History of German literature from the earliest times to the Reformation. 3 hours. Full course. Professor THOMAS
- 62 and 102—History of German literature from the Reformation to the nineteenth century. 3 hours. Full course. Professor THOMAS
- 63-64 and 103-104—Goethe's *Faust*. First and second parts. 2 hours. Two half courses. Professor HERVEY
- 105—German literature in the nineteenth century. Half course. Professor THOMAS
- 106—Contemporary German literature. Half course. Professor TOMBO
- 107—History of the German language. Half course. Professor REMY
- 108—The German of to-day. Half course. Professor HEUSER
- 109—Heinrich von Kleist. Vorträge and Aufsätze in deutscher Sprache. Half course. Professor HEUSER
- [112—Middle High German. Grammar and reading. Half course. Professor REMY]
- 113-114—Middle High German literature. Two full courses. Professor HERVEY
- [128—Old High German and Old Saxon. Full course. Professor REMY]
- 129-130—Outlines of the history of German civilization. Two half courses. Dr. RICHARD
- 141—Phonetics. Half course. Professor BAGSTER-COLLINS (Teachers College)
- 142—Modern German Syntax. Half course. Professor BAGSTER-COLLINS (Teachers College)
- Education 169-170—The teaching of German. Two half courses. Professor BAGSTER-COLLINS (Teachers College)
- 201—Proseminar. Lessing. Full course. Professor THOMAS
- 202—Proseminar. Goethe. Full course. Professor THOMAS
- [203—Proseminar. Schiller. Full course. Professor THOMAS]
- [204—Proseminar. Grillparzer. Full course. Professor THOMAS]

207—Proseminar. Sudermann. Full course. Professor TOMBO
 208—Proseminar. Conrad Ferdinand Meyer. Full course. Professor TOMBO

131-132—The Dutch language, beginners' course. Two half courses. **Dutch**
 Mr. VAN NOPPEN

133-134—Dutch literature of the Renaissance. Two half courses.
 Mr. VAN NOPPEN

121—Elementary Icelandic. Full course. Professor REMY **Scandi-**
 122—Advanced Icelandic. Full course. Professor REMY **navian**

127—Gothic. Full course. Professor REMY **Gothic**

205—Comparative philology of the Germanic dialects. Full course. **Philology**
 Professor REMY

[206—Continuation of course 205. Full course. Professor REMY]

301—Gottfried von Strassburg's *Tristan*. Full course. Professor REMY **Seminar**

302—Herder and the Storm and Stress. Full course. Professor
 THOMAS

sA1—Elementary course. 2 points. Messrs. PALMBLAD, HAUCH **Summer**
 and SCHOLZ

sA2—Elementary reading and oral practice. 2 points. Messrs.
 PALMBLAD and SCHOLZ

sA3—Supplementary course. 2 points. Messrs. BACH and HAUCH

sB1—Intermediate course. First part. 2 points. Mr. SCHULZE

sB2—Intermediate course. Second part. 2 points. Mr. SCHULZE

s3-4—Composition and oral practice. Intermediate course. 2 points.
 Dr. PORTERFIELD and Mr. BACH

s5-6—Introduction to the classics. 4 points. Professor HERVEY

s11-12—Composition and oral practice. Advanced. Professor BRAUN

s101—History of German literature from the earliest times to the
 Reformation. Half course. Professor TOMBO

[s102—History of German literature from the Reformation to the rise
 of the Romantic School. Half course]

s103-104—Goethe's *Faust*. Half course. Professor BRAUN

s106—Contemporary German literature. Half course. Professor
 TOMBO

[s107—History of the German language. Half course]

s108—The German language of to-day. Half course. Professor REMY

s112—Middle High German. Half course. Professor REMY

[s127—Gothic. Half course]

[s128—Old High German. Half course]

s131—The Romantic movement in Germany. Half course. Dr. PORTERFIELD

[s141—Phonetics. Half course. Professor BAGSTER-COLLINS]

[s201—Proseminar A. Great German writers. Lessing. Full course]

s202—Proseminar B. Great German writers. Goethe. Full course. Professor HERVEY

[s203—Proseminar C. Great German writers. Schiller. Full course]

Extension eA1—A2—Elementary course. 6 points. Professor HEUSER, Dr. PORTERFIELD, (in Brooklyn) Mr. REICHLING

eA3—A4—Elementary course. First half. 3 points. Mr. M. G. BACH

eA5—A6—Elementary course. Second half. 3 points. Mr. M. G. BACH

eA8—Elementary course. First half. 3 points. Mr. EYSTER

eA9—Elementary course. Second half. 3 points. Mr. EYSTER

eB1—B2—Intermediate course. 6 points. Messrs. SCHULZE and PALMBLAD

eB3—B4—Shorter intermediate course. 4 points. Professor BRAUN and Mr. BECHERT

eB6—Intermediate course. First half. 3 points. Dr. BETZ

e3—4—Composition and oral practice. Intermediate course. 3 points. Mr. BECHERT and Dr. BETZ

e5—6—Introduction to the classics. 6 points. Professor HERVEY

e11—12—Composition and oral practice. Advanced. 3 points. Professors BRAUN and HEUSER

e103—104—Goethe's *Faust*. First and second parts. Two half courses. Professor THOMAS

Equipment The University Library offers excellent facilities for the study of German, both on the literary and the linguistic side. The Scandinavian collection contains a good representation of the ancient saga and poetical literature, and most of the eminent writers of modern Norway, Denmark, and Sweden. The Holland Society library, deposited with the University in 1901, contains a considerable collection of books and pamphlets in the Dutch language from all periods.

The Library has sets and the current numbers of all the important periodicals which deal with Germanic literature and Germanic and general philology. It has also sets of periodicals no longer published, and a large collection of the transactions and publications of the learned societies of America and Europe.

A reference library of 1200 volumes, containing the most important subsidia for the critical study of the Germanic languages and literatures and independent of the main collection in the University Library, is placed in a room adjacent to the lecture-room and offices of the depart-

ment in Philosophy Hall. A similar library of about 500 volumes is maintained in Hamilton Hall for the use of advanced college students.

The income of the Carl Schurz Library Fund (\$10,000), contributed by citizens of New York in commemoration of the seventieth birthday of Carl Schurz, is, by the terms of the gift, devoted in perpetuity to the purchase of books in the field of the German language and literature.

For the Carl Schurz Fellowship in the German Language and Literature, see index.

The Deutsches Haus at 419 West 117th Street contains a good working library of some 2000 volumes relating to contemporary German literature, a reading-room where the more important German journals are accessible to students, and a bureau of information concerning the educational interrelations of Germany and the United States. It also serves as the residence of the Kaiser Wilhelm Professor and of the guests of the Germanistic Society. The director is Professor RUDOLF TOMBO, Jr.

The Germanic Club is an organization founded in 1902 for the purpose of reviewing and discussing important contributions to recent scholarship in the Germanic field. The Club consists of the officers, fellows, and scholars of the department. Meetings are held monthly.

The Deutscher Verein of Columbia University, founded in 1898, is an association of the students and instructors of the University who are interested in the study of the German language and literature, and in the acquisition of a more intimate knowledge of Germany, of German institutions, and of the German people than is furnished by academic study alone. Stated meetings are held in the room assigned to the Verein in West Hall.

GREEK (see page 83)

GYNECOLOGY

Professor: CRAGIN (*Executive Officer*)

Professors of Clinical Gynecology: CHAMBERS, OASTLER, TAYLOR

Associate: WARD

Instructors: LOBENSTINE, PROBEN, RYDER, VAN ETTEN and WILLIAMS (P. H.)

Clinical Assistants: ROFF, SILLECK, COLIE, AYRES

See introductory paragraphs, page 60

Courses 211-212, 213-214, and 215-216 are open to graduates in medicine

201—Recitations and demonstrations in gynecology. 1 hour. Dr. WARD

202—The principles and practice of gynecology. 2 hours. Professor CRAGIN

203-204—Clinic on operative gynecology. 4 hours. Professor CRAGIN

205-206—Demonstration of patients convalescing from gynecological operations and of specimens removed. 6 hours. Dr. VAN ETTEN

207-208—Practical instruction in gynecological diagnosis. 3 hours. Drs. WARD, PROBEN, RYDER and WILLIAMS

209-210—Practical instruction in the diagnosis and treatment of venereal diseases in women. Dr. LOBENSTINE

211-212—Clinic in operative gynecology. 1 hour. Professor OASTLER

213-214—Clinic in operative gynecology. 1 hour. Professor CHAMBERS

215-216—Clinic in operative gynecology. 1 hour. Professor TAYLOR

HISTORY

Professors: BOTSFORD, DUNNING (*Executive Officer*), JOHNSON (H.), OSGOOD, ROBINSON, SHEPHERD, SHOTWELL and SLOANE

Associate Professor: MUZZEY

Assistant Professors: HAYES and SCHUYLER

Instructors: HUMPHREY, HUTTMANN, KENDRICK and FOX

Assistant: Miss POYNTZ

A1-A2—A survey of Europe. 3 hours. Professors HAYES, SCHUYLER, Dr. HUMPHREY and Mr. FOX (Columbia College)

A1-A2—Epochs of European history. 3 hours. Professor MUZZEY and Miss HUTTMANN (Barnard College)

A4-A5—3 hours. Dr. HUMPHREY (Columbia College)

A7-A8—A survey of the ancient world. 3 hours. Dr. HUMPHREY (Columbia College)

A9-A10—A survey of American history. 3 hours. Professor SCHUYLER and Mr. FOX (Columbia College)

[3-4—History of Greece. Professor BOTSFORD (Barnard College and Columbia College)]

5-6—The Roman Empire. 3 hours. Professor BOTSFORD (Barnard College and Columbia College)

[7-8—Medieval history and the Renaissance. Dr. HUMPHREY (Columbia College)]

9, 10—European history, modern and contemporaneous. 3 hours. Professor SHOTWELL and Miss POYNTZ (Barnard College)

11—Constitutional history of England. 3 hours. Professor SCHUYLER (Columbia College)

11, 12—English history, with special reference to the history of continental Europe. 3 hours. Professor MUZZEY (Barnard College)

12—The British Empire. 3 hours. Professor SCHUYLER (Columbia College)

13—Political history of the United States from the close of the Revolution to the War with Mexico. 3 hours. Professor SCHUYLER (Columbia College)

13-14—History of the United States to the close of the Civil War. 3 hours. Mr. HILL (Barnard College)

14—Political history of the United States since 1848. 3 hours. Professor DUNNING (Columbia College)

15-16—Recent American history. 3 hours. Mr. KENDRICK (Columbia College). 2 hours. Professor MUZZEY (Barnard College)

19-20—Contemporary events. 2 hours. Mr. Fox (Columbia College)

51-52—Literature of American history. 2 hours. Professor JOHNSON (Barnard College)

53-54—Modern social politics in western Europe. 3 hours. Professor HAYES (Columbia College)

55—Origins of European society. 3 hours. Professor SHOTWELL and Mr. Fox (Columbia College)

56—The social and industrial history of modern England. 3 hours. Professor SHOTWELL and Mr. Fox (Columbia College)

[69-70—The expansion of Europe. Professor SHEPHERD (Barnard College)]

71-72—History of the intellectual class in Europe. 3 hours. Professor ROBINSON and Mr. Fox (Columbia College)

103—History of India and of Persia. 2 hours. Professor JACKSON

104—The rise of Arabian civilization and the spread of Mohammedanism. 2 hours. Professor GOTTHEIL

109—The history of western Asia and Egypt. 2 hours. Professor PRINCE

113-114—History, language, literature, government, art and social life of the Chinese. 2 hours. Professor HIRTH

[117-118—History of Rome to the end of the Republic. Professor BOTSFORD]

119-120—History of Greece from Pericles to the Roman conquest. 2 hours. Professor BOTSFORD

121—The history of the intellectual class in Europe: Part I. 4 hours. Professor ROBINSON

122—The history of the intellectual class in Europe: Part II. 4 hours. Professor ROBINSON

[125-126—The history of England to 1660]

129—Ethnology: primitive culture. 2 hours. Professor FARRAND

130—Ethnology: primitive culture. 2 hours. Professor FARRAND

131—Types of primitive social organization. 3 hours. Dr. GOLDENWEISER

132—Types of primitive religion. 3 hours. Dr. GOLDENWEISER

[135—The races of Europe. Professor BOAS]

[136—The races of Europe. Professor BOAS]

137—Ethnography of Siberia and North America. 2 hours. Professor BOAS

138—Ethnography of Central and South America. 2 hours. Professor BOAS

[151—European history, 1815-1848. Professor SLOANE]

153—Contemporary European history since 1848. 4 hours. Professor SLOANE

[154—The political and social evolution of modern Turkey and Egypt. Professor GOTTHEIL]

155—The origins of European society. 2 hours. Professor SHOTWELL

156—Social and industrial history of modern England. 2 hours. Professor SHOTWELL

[157-158—History of Great Britain, principally during the eighteenth and nineteenth centuries]

[159—History of socialism. Professor SIMKHOVITCH]

161—The formation of the American constitutional system. 2 hours. Professor BEARD

162—The development of the American constitutional system. 2 hours. Professor BEARD

[163—Fiscal and industrial history of the United States. Professor SELIGMAN]

166—History of American diplomacy. 2 hours. Professor STOWELL

[169—The expansion of Europe: first phase. Professor SHEPHERD]

[170—The expansion of Europe: second phase. Professor SHEPHERD]

[181—The historical characteristics of philosophy. Professor WOODBRIDGE]

183-184—Moral and political philosophy. 3 hours. Professor DEWEY

193-194—Theory and practice of teaching history in secondary schools. 4 hours. Professor JOHNSON (Teachers College)

213-214—The Roman Empire, political, social and intellectual. 2 hours. Professor BOTSFORD

[215-216—History of Greece to the end of the war with Persia. Professor BOTSFORD]

221—Later Roman Empire and early middle ages. 2 hours. Professor SHOTWELL

223—Primitive institutions, Paganism and Christianity. 2 hours. Professor SHOTWELL

224—History of European law. 3 hours. Professor MUNROE SMITH

[225—Europe in the twelfth and thirteenth centuries. Professor SHOTWELL]

226—The Protestant Revolt. 2 hours. Professor ROBINSON

[¹ 229—General church history. Period I: The ancient church to 590 A.D. Professor MCGIFFERT]

¹ 230—General church history. Periods II and III: the medieval and modern church, 590-1789. 2 hours. Professor ROCKWELL

[¹ 231—History of Christian doctrine. I: history of thought in the primitive and Catholic church. Professor MCGIFFERT]

¹ Given at Union Theological Seminary.

[¹ 232—History of Christian doctrine. II: history of Protestant thought. Professor MCGIFFERT]

[¹ 233-234—Medieval ecclesiastical institutions. 2 hours. Professor ROCKWELL]

¹ 236—History of New Testament times. 2 hours. Mr. TRYON

¹ 238—Readings in the early fathers. 2 hours. Mr. TRYON

¹ 239—The influence of contemporary cults on early Christianity. 2 hours. Mr. TRYON

¹ 241—Medieval church history, 590-1517. 2 hours. Professor ROCKWELL

[¹ 243—English church history before the Reformation. 2 hours. Professor ROCKWELL]

[¹ 244—English church history (Reformation and Post-Reformation periods). Professor MCGIFFERT]

¹ 245—European church history in the nineteenth century. 2 hours. Professor ROCKWELL

¹ 246—American church history. 2 hours. Professor ROCKWELL

² 247—The church during the first three centuries. 3 hours. Professor JENKS

² 248—The church from the Council of Nicaea to Charlemagne. 3 hours. Professor JENKS

² 249—The church of England. 3 hours. Professor JENKS

² 250—The church from Charlemagne to modern times. 3 hours. Professor JENKS

251—History of diplomacy. 2 hours. Professor STOWELL

[252—The reforms of the French Revolution. Professor ROBINSON]

[255—Social evolution: ethnic and civil origins. Professor GIDDINGS]

[256—Social evolution: civilization, liberty and democracy. Professor GIDDINGS]

257—The evolution of progressive society. 2 hours. Professor GIDDINGS

258—The theory of social evolution. 2 hours. Professor GIDDINGS

260—Radicalism and social reform as reflected in the literature of the nineteenth century. 2 hours. Professor SIMKHOVITCH

[261—American colonial history during the seventeenth century. Professor OSGOOD]

263-264—American colonial history during the eighteenth century. 2 hours. Professor OSGOOD

267—The United States from 1850 to 1865. 2 hours. Professor DUNNING

268—The United States after the Civil War. 2 hours. Professor DUNNING

269—Hispanic institutions and culture. 2 hours. Mr. HILL

272—Spanish colonization in the United States. 2 hours. Mr. HILL

¹ Given at Union Theological Seminary.

² Given at the General Theological Seminary.

- [273—French colonization in the United States. Professor SHEPHERD]
 275—Colonial Latin America. 2 hours. Mr. HILL
 276—The Latin-American republics. 2 hours. Mr. HILL
 279—General history of political theories, ancient and medieval.
 2 hours. Professor DUNNING
 280—General history of modern political theories. 2 hours. Professor DUNNING
 [281—American political philosophy before 1850. Professor DUNNING]
 [282—American political philosophy since 1850. Professor DUNNING]
 293-294—Practicum. 2 hours. Professor JOHNSON (Teachers College)
 311-312—Seminar in Greek and Roman history. 1 hour. Professor BOTSFORD
 [1 313-314—Seminar in church history. Professor MCGIFFERT]
 1 315—Historical bibliography, with special reference to ecclesiastical sources. 2 hours. Professor ROCKWELL
 1 316—Historical training class: methods of research, with exercises. 2 hours. Professor ROCKWELL
 1 317-318—Seminar in Church History. 2 hours. Professor ROCKWELL and Mr. TRYON
 [1 319-320—Seminar in the history of religious thought. Professor MCGIFFERT]
 321—Historical bibliography; the sources of European history; methods of historical study. 2 hours. Professors ROBINSON and SHOTWELL
 [323—Seminar in primitive institutions in Europe. Professor SHOTWELL]
 326—The spirit of reform in England in the seventeenth and early eighteenth century. 2 hours. Professor ROBINSON
 [352—The reform spirit in France before the Revolution. Professor ROBINSON]
 356—Seminar in the social history of England during the Industrial Revolution. 2 hours. Professor SHOTWELL
 357 (358)—The work of Napoleon. 4 hours. Professor SLOANE
 361—The American Revolution. 4 hours. Professor OSGOOD
 363-364—Seminar in American colonial history. 1 hour. Professor OSGOOD
 365 (366)—European politics and the War of 1812. 4 hours. Professor SLOANE
 367-368—Seminar in later United States history. Professor DUNNING
 [369-370—Seminar in the expansion of Europe. Professor SHEPHERD]

- Summer** SA1—The foundations of modern Europe. 2 points. Dr. HUMPHREY
 SA2—Modern and contemporary European history. 2 points. Dr. HUMPHREY and Mr. HALL
 [SI3—History of the United States, 1783-1845]

¹ Given at Union Theological Seminary.

s14—History of the United States since 1845. 2 points. Professor **BASSETT**

s101—Greece to the age of Pericles. Full course. Professor **WESTERMANN**

[**s102**—The Hellenic world from the Peloponnesian War through the Macedonian conquest. Full course]

s105—Rome to the end of the republic. Full course. Professor **WESTERMANN**

[**s106**—The Roman Empire to the Germanic invasions. Full course]

s111—The middle ages: political and social. Full course. Professor **MUZZEY**

[**s112**—Medieval culture and the Renaissance. Full course]

[**s120**—The expansion of Europe to the close of the eighteenth century. Full course]

s124—The old régime, the French Revolution and the work of Napoleon. Full course. Professor **MUZZEY**

[**s125**—The industrial revolution. Full course]

[**s126**—European history, 1815–1870. Full course]

s127—European history since 1870. Full course. Professor **DUTCHER**

[**s128**—Recent European history, social and industrial. Full course]

[**s129**—The expansion of Europe in the nineteenth and twentieth centuries. Full course]

s131—Formation and development of the English constitution to the opening of the seventeenth century. Full course. Professor **WHITE**

[**s132**—History of England from the opening of the seventeenth century to the present time. Full course]

s140—The American colonies and the Revolution. Full course. Professor **CARTER**

[**s141**—The United States, 1783–1815. Full course]

s142—The United States, 1815–1850, with especial reference to the development of the West. Full course. Professor **CARTER**

[**s143**—The United States, 1850–1877. Full course]

s144—Recent history of the United States. Full course. Professor **BASSETT**

s255—Methods of historical study. Full course. Professor **DUTCHER**

s353—Seminar in English history. Full course. Professor **WHITE**

[**s354**—Seminar in American history. Full course]

eA1—The foundations of modern Europe. 3 points. Dr. **HUMPHREY** **Extension**

eA2—Modern and contemporary history. 3 points. Dr. **HUMPHREY**

e11—English history to 1689. 2 points. Professor **SCHUYLER**

e12—The British Empire, 1689–1911. 2 points. Professor **SCHUYLER**

e13–14—American history. 2 points. Mr. **KENDRICK**

e104—The political and social evolution of modern Turkey and Egypt. Half course. Professor **GOTTHEL**

e104a—Course e104 supplemented by assigned readings and reports. Full course

e125-126—The Slavonic movement with especial reference to the Balkan States. Half course. Professor PRINCE

e131-132—History of the Far Eastern development. Half course. Dr. IYENAGA

e149-150—The French Revolution and the Napoleonic era. Half course. Professor MUZZEY

e153-154—Political and social history of western Europe since 1848. Half course. Professor HAYES

e155—Industrial history. The origins of European society. Half course. Professor SHOTWELL

e156—Industrial history. Social and industrial history of modern England. Half course. Professor SHOTWELL

Equipment The University Library contains many of the great published collections for the study of ancient, medieval, and modern history. The special library of history and political science numbers upwards of 150,000 volumes. The great libraries of New York, Astor, Lenox, and Tilden foundations, those of the New York and Long Island Historical Societies, and of the Bar Association are, under certain conditions, also accessible to students. Fuller information as to courses and opportunities for historical work is given in the *Announcement of the Division of History, Economics, and Public Law*, which may be obtained by applying to the Secretary of the University. Under the auspices of the Academy of Political Science, to which advanced students are eligible as members, opportunities are given for the discussion of questions of interest as presented in papers by specialists.

HOUSEHOLD ARTS

The School of Practical Arts of Teachers College provides ninety courses in Household Arts Education, Nutrition and Food Economics, Household Chemistry, Physiological Chemistry, Foods and Cookery, Textiles and Clothing, Household Art, Household and Institutional Administration, and Nursing and Health. Part-time students are provided for by Special Classes. These courses and the Household Arts building and equipment are described in special circulars and in the *Announcement of the School of Practical Arts*. There is a summer session of the School.

HYGIENE AND PREVENTIVE MEDICINE

Associate: WALTER BENSEL, M.D.

202—Hygiene and preventive medicine. 2 hours. Dr. BENSEL

INDUSTRIAL ARTS

The School of Practical Arts of Teachers College provides thirty-three courses in Industrial Arts Education, Drawing and Design, Industrial

Mathematics, Wood-Working, Metal-Working, Photography, and Clay-Modelling. Provision is made for part-time students by a group of Evening Technical Courses. These courses and the Macy Manual Arts building and equipment are described in the *Announcement of the School of Practical Arts*. There is a summer session of the School.

LATIN (see page 83)

LAW

PRIVATE LAW

Professors: ABBOTT, BURDICK, CANFIELD, GOODNOW, GUTHRIE, MOORE (J. B.), KIRCHWEY, REDFIELD, MUNROE SMITH, STONE (*Executive Officer*), and TERRY

Associate Professors: REYNOLDS and POWELL

Associates: DORR and GIFFORD

Lecturers: ARNOLD and HOLT

Assistant: WHITAKER

See introductory paragraphs, page 60

101-102—Contracts. 4 hours. Professor TERRY

103—Criminal law. 3 hours. Professor STONE

105—Elements of law. 3 hours. Professor MUNROE SMITH

107—Pleading and practice I. 3 hours. Professor REDFIELD

108—Real and personal property I. 2 hours. Professor KIRCHWEY

110—Torts. 2 hours. Professor BURDICK

111—American constitutional law I. 1 hour. Professor GUTHRIE

201—Agency. 3 hours. Professor REYNOLDS

202—Carriers. 3 hours. Professor REYNOLDS

205—Domestic relations and the law of persons. 2 hours. Professor ABBOTT

[206—Bankruptcy and insolvency.¹ 2 hours. Professor KIRCHWEY]

207—Equity I. 3 hours. Professor ABBOTT

208—Trusts. 3 hours. Professor STONE

210—Negotiable paper. 3 hours. Professor BURDICK

[211—Insurance.¹ 2 hours. Mr. DORR]

212—Federal jurisdiction. 2 hours. Mr. DORR

213—Pleading and practice II. 4 hours. Professor REDFIELD

215—Real and personal property II. 2 hours. Professor KIRCHWEY

216—American constitutional law II. 4 hours. Professor POWELL

218—Quasi contracts. 3 hours. Professor ABBOTT

219-220—Sales of personal property. 2 hours. Professor BURDICK
Negotiable paper. 3 hours. Professor BURDICK

221-222—Corporations. 2 hours. Professor CANFIELD

223—Equity II. 3 hours. Professor STONE

225—Evidence. 4 hours. Professor KIRCHWEY

¹ Omitted during 1913-1914.

- 228—New York Trusts and Perpetuities. 2 hours. Professor CANFIELD
 229—Partnership. 3 hours. Professor BURDICK
 230—Mortgages. 3 hours. Professor STONE
 231—Pleading and practice III. 3 hours. Professor REDFIELD
 232—Suretyship. 2 hours. Professor ABBOTT
 233-234—Real and personal property III. 4 hours. Professor ABBOTT
 Wills and administrations. 3 hours. Professor REDFIELD
 Conflict of laws. 1 hour. Professor J. B. MOORE
 International law. 2 hours. Professor J. B. MOORE
 Municipal corporations. 2 hours. Professor POWELL
 Law of officers. 2 hours. Professor POWELL
 Law of taxation. 2 hours. Professor POWELL

**Special
Courses**

- Admiralty.¹ 2 hours. Mr. DORR
 Federal jurisdiction. 2 hours. Mr. DORR
 Patent Law. 2 hours. Mr. HOLT
 Law of mining and irrigation. 2 hours. Mr. ARNOLD
 Trial evidence. 1 hour. Mr. DORR
 Readings in the digest of Justinian. 1 hour. Professor MUNROE
 SMITH
 Modern civil law. 3 hours. Professor MUNROE SMITH
 History of European law. 3 hours. Professor MUNROE SMITH

Summer

- s1—Real and personal property I. 2 points. Professor KIRCHWEY
 s2—Personal property I. 2 points. Professor KIRCHWEY
 s3—Criminal law. 3 points. Professor GIFFORD
 s4—Negotiable paper. 3 points. Professor W. U. MOORE
 s5—Carriers. 3 points. Mr. DORR
 s6—Domestic relations and the law of persons. 2 points. Professor
 GIFFORD
 Code pleading. 2 points. Professor DEE
 Code practice. 3 points. Professor DEE
 Agency. 3 points. Professor CHARLES K. BURDICK
 Bankruptcy and insolvency. Professor DEE
 Insurance. 2 points. Professor W. U. MOORE
 s203—Constitutional law. 2 points. Mr. POWELL
 s204—Constitutional law. 2 points. Mr. POWELL

PUBLIC LAW AND COMPARATIVE JURISPRUDENCE

Professors: GOODNOW, GUTHRIE, MOORE (J. B.), MUNROE SMITH
 (*Executive Officer*)
Associate Professors: BEARD, POWELL, and MCBAIN
Assistant Professor: SALT

¹ Omitted during 1914-1915.

Instructor: McMAHON

Lecturers: STOWELL, KUHN

Assistant: PEARCE

1—American federal government (in sections). 3 hours. Professors **Public Law** BEARD and SAIT and Mr. McMAHON

2—American state and municipal government (in sections). 3 hours. Professors BEARD and SAIT and Mr. McMAHON

4—(Identical with 1.) Professor BEARD and Mr. McMAHON

5—(Identical with 2.) Professor BEARD and Mr. McMAHON

7—Contemporary problems of American federal politics. 4 hours. Professor SAIT

8—Contemporary state and municipal problems. 4 hours. Professor SAIT

55—Party government in the United States. 3 hours. Professor BEARD and Mr. McMAHON

[56—American state government. 3 hours. Professor BEARD and Mr. McMAHON]

101—Formation of the American constitutional system. Professor BEARD. (Identical with History 161.)

102—Development of the American constitutional system. Professor BEARD. (Identical with History 162.)

[103-104—Comparative politics and government. 2 hours. Professor BEARD]

105—Party government in the United States. 2 hours. Professor BEARD

[106—American state government. 2 hours. Professor BEARD]

201—Introduction to constitutional law. 1 hour. Professor GUTHRIE

203-204—The constitutional law of the United States. 2 hours. Professor POWELL

301-302—Seminar in constitutional and administrative law. Professors BEARD, POWELL, and McBAIN

51—American federal government. 2 points. Professor SAIT

Summer

5105—Party government in the United States. Full or half course. Professor SAIT

5203-204—Constitutional law. (Two full courses). Professor POWELL

120—History of American diplomacy. 2 hours. Professor STOWELL

221—History of diplomacy. 2 hours. Professor STOWELL

223-224—International law. 2 hours. Professor STOWELL

321-322—Seminar in international law. 2 hours. Professor STOWELL

143-144—Municipal science and administration. 2 hours. Professor McBAIN

146—Municipal functions. 2 hours. Professor BEARD

241—Law of officers (extraordinary legal remedies). 2 hours. Professor POWELL

- 245—Law of taxation. 2 hours. Professor POWELL
 246—The law of municipal corporations. 2 hours. Professor POWELL
 341-342—Seminar in constitutional and administrative law. Professors BEARD, POWELL, and MCBAIN

- Roman** 161—Elements of law. 2 hours. Professor MUNROE SMITH
 263—Roman law. 3 hours. Professor MUNROE SMITH
 266—History of European law. 3 hours. Professor MUNROE SMITH
 268—Modern civil law of western Europe. 3 hours. Professor MUNROE SMITH
 269—Conflict of laws. 2 hours. Dr. KUHN
 361-362—Seminar in legal history. 1 hour. Professor MUNROE SMITH
 363-364—Seminar in comparative jurisprudence. Professor MUNROE SMITH

Equipment In addition to excellent working collections of constitutions, codes, session laws, judicial decisions, government reports, legal treatises, transactions of legal societies, and law journals of the principal foreign countries as well as of the United States, the Library of Columbia University offers special advantages to students of politics, public law, and comparative jurisprudence in the collections of Henry Livingston Thomas, late chief translator to the Department of State, of the Holland Society of New York, and of the Reform Club of the City of New York, of which the Columbia Library is the depository. The materials thus furnished are richly supplemented by those in the libraries of public institutions, learned societies, and civic organizations, particularly the Hispanic Society of America, with its unique collection of materials relating to the history, institutions, and culture of Spain, Portugal, and Latin America, the Bar Association, and the Law Institute. To these libraries advanced students have access under favorable conditions.

Lectures of special interest to students of politics and jurisprudence are maintained by specific endowments, such as the Beer lectures in political science, the Blumenthal lectures in politics, and the Carpentier lectures in law. Some of these lectures are given by distinguished foreigners, others by men prominent in public life in the United States.

MANUAL TRAINING

Thirty-three courses in Industrial Arts are offered under the auspices of Teachers College. For details see the *Announcement of the School of Practical Arts*, which will be sent without charge, upon application to the Secretary of the University. (See also Shopwork, page 167.)

MATERIA MEDICA (see page 145)

MATHEMATICS

Professors: COLE, FISKE, FITE, HAWKES, KASNER KEYSER (*Executive Officer*), MACLAY, MITCHELL (H. B.), and SMITH (D. E.)

Assistan Professors: GROVE, SICELOFF and UPTON

Instructors: CURTIS, F. SCHER, GRAVES, MULLINS, NORTHCOTT, and REDDICK

Assistants: McMACKIN and PFEIFFER

See introductory paragraphs, page 60

A1 or A4—Plane trigonometry and algebra. 3 hours. Professors HAWKES, GROVE and SICELOFF, Dr. REDDICK, Mr. GRAVES, Dr. FISCHER and Mr. NORTHCOTT

A2 or A3—Solid geometry. 3 hours. Professors HAWKES and SICELOFF, Dr. REDDICK, Mr. GRAVES and Mr. NORTHCOTT.

1 or 2—Algebra. 2 hours. Professors MITCHELL, HAWKES, GROVE and SICELOFF, Dr. REDDICK, Mr. GRAVES, Dr. FISCHER and Mr. NORTHCOTT

3 or 4—Analytical geometry. 3 hours. Professors MITCHELL, HAWKES, GROVE and SICELOFF, Dr. REDDICK, Mr. GRAVES, Dr. FISCHER and Mr. NORTHCOTT

12—Mathematics of statistics. 3 hours. Professor GROVE

13—Differential equations. 3 hours. Professor FISKE

14—Higher algebra. 3 hours. Professor SICELOFF

10-11 or 15-16—Differential and integral calculus. 3 hours. Professors MITCHELL and FITE

17—Advanced calculus. 3 hours. Professor FITE

[21—Advanced analytical geometry. 3 hours. Professor MACLAY]

19—Projective geometry. Dr. FISCHER

20—Fundamental concepts in mathematics. 3 hours. Professor FISKE

64-65 or 67-68—Differential and integral calculus. 5 hours. Professors FISKE, MACLAY, MITCHELL, FITE, GROVE and SICELOFF, Dr. REDDICK, Mr. GRAVES and Dr. FISCHER

101-102—Modern theories in geometry. 3 hours. Professor KEYSER

105-106—Theory of numbers. 3 hours. Professor MACLAY

111—Modern higher algebra. 3 hours. Professor HAWKES

[111-112—Modern higher algebra. Professor MACLAY]

115-116—History and significance of central mathematical concepts. 2 hours. Professor KEYSER

121—Differential equations. 3 hours. Professor FISKE

122—Differential equations. 2 hours. Dr. REDDICK

(Mathematics **13** may be counted as a graduate course by those who also complete **122**)

131 or 132—Mathematical theory of statistics. 3 hours. Professor GROVE

201-202—Introduction to the theory of functions of a real variable. 3 hours. Professor FISKE

[203-204—The theory of functions of a complex variable. Professor FISKE]

205-206—Introduction to the theory of functions. 3 hours. Professor COLE

[212—Multiple algebra. 3 hours. Professor HAWKES]

218—Infinite series. Professor FITE

[221-222—Theory of plane curves. 3 hours. Professor COLE]

[225—Integral equations. 2 hours. Professor KASNER]

[228—Calculus of variations. 3 hours. Professor FITE]

251-252—History of mathematics. Lectures and collateral reading. 3 hours. Professor SMITH

307-308—Theory of groups. 3 hours. Professor COLE

[309-310—Functions defined by linear differential equations. 3 hours. Professor FISKE]

[311-312—The general theory of assemblages. 3 hours. Professor KEYSER]

[313-314—Theory of invariants. 3 hours. Professor COLE]

[323-324—The principles of mathematics. 3 hours. Professor KEYSER]

341-342—Elliptic functions. 3 hours. Professor MACLAY

345—Seminar in differential geometry. 3 hours. Professor KASNER

Summer sA1—Logarithms and trigonometry. 2 points. Professor SICELOFF, Dr. FISCHER and Mr. MULLINS

sA2—Solid geometry. 2 points. Drs. DINES and FISCHER

s3—Analytical geometry. 3 points. Professor FITE

s1—Algebra. 2 points. Drs. REDDICK and DINES

s12—Mathematics of statistics. 3 points. Professor GROVE

s13—Differential equations. 3 points. Professor KASNER

s15—Calculus: short course. 3 points. Professor GROVE

s64—Calculus: first part. 4 points. Professor SICELOFF

s65—Calculus: second part. 4 points. Dr. REDDICK

s101—Modern theories in geometry. Professor KEYSER

s111—Higher algebra. Professor MACLAY

s115—History and significance of central mathematical concepts. Professor KEYSER

s201—Theory of functions of a real variable. Professor FITE

s207—Continuous groups. Professor KASNER

Extension esX—Algebra, elementary and intermediate. Mr. MULLINS
esY—Plane geometry. Mr. MULLINS

eX1—Algebra, elementary and intermediate course. First half-year.
Mr. B. E. MITCHELL

eY1—Plane geometry. First half-year. Mr. McMACKIN

eX2—Algebra. Course **eX1** repeated. Second half-year. Mr. McMACKIN

eY2—Plane geometry. Course **eY1** repeated. Second half-year. Mr. B. E. MITCHELL

eZ1—Plane geometry and trigonometry. Mr. CURT

eA1—Trigonometry and algebra. 3 points. First half-year. Mr. NOWLAN

also evenings in Brooklyn

also evenings in Newark

eA2—Solid geometry. 3 points. Mr. CURT

eA4—Trigonometry and algebra. Course **eA1** repeated. 3 points.
Second half-year. Mr. NOWLAN

e1—Algebra. 2 points. Mr. NOWLAN

e3—Analytical geometry. 3 points. Mr. B. E. MITCHELL

e4—Analytical geometry. Course **e3** repeated. 3 points. Second
half-year. Mr. B. E. MITCHELL

e15-16—Calculus. 3 points each half-year. Mr. B. E. MITCHELL

e75-76—Calculus. 4 points each half-year. Mr. PFEIFFER

In connection with the Department of Mathematics and in addition **Equipment** to the regular library facilities there is a large and fully equipped reading-room, 108 Library, in which are available the current numbers of over one hundred and fifty mathematical journals and periodicals.

The laboratory equipment of the department has been greatly increased. Recent acquisitions of mathematical models and instruments include the famous collections of Wiener and Schilling. Room 503 Fayerweather has been set apart as a mathematical laboratory and model room.

Teachers College is well supplied with models and apparatus for use in teaching mathematics in all grades, from the kindergarten through the high school, together with various instruments for mechanical computation, including a Stanley arithmometer. The large collection of instruments, autographs, portraits, and other material illustrating the historical development of mathematics, the property of Professor Smith, is placed at the disposal of the students, as is his extensive library on the history and teaching of the subject. Arrangements may be made by which advanced students in the history of mathematics may have access to the library of George A. Plimpton, Esq., which is particularly rich in manuscripts, incunabula, and sixteenth-century works on the subject. The department has a large collection of stereopticon slides illustrating many important manuscripts and early works from this and other libraries.

MECHANICAL ENGINEERING

Professors: LUCKE (*Executive Officer*) and RAUTENSTRAUCH

Assistant Professors: PARR, PRESTON and THOMAS (C. W.)

Associates: HALSEY, LONGACRE, NICKEL and MOSS, OHMES

Instructors: HERRICK, THURSTON and WIESER

Assistant: EDDISON

See introductory paragraphs, page 60

11-12—Steam-power machinery. 3 hours, and 1 afternoon second half-year. Professors LUCKE, PRESTON and WIESER

13-14—Steam-power machinery, shorter course. 3 hours. Professors LUCKE and PRESTON

17-18—Engineering thermodynamics. 2 hours. Professor LUCKE and Mr. THURSTON

19-20—Engine design. 3 hours and 2 afternoons. Professor RAUTENSTRAUCH and Mr. MOSS

21—Gas-power machinery. 4 hours and 1 afternoon. Professor LUCKE and Mr. THURSTON

25-26—Steam-power. 2 hours and 1 afternoon first half-year, and 2 hours and 2 afternoons second half-year. Professor PRESTON

31-32—Standard tests and research methods. 1 hour and 1 afternoon. Professor PARR and Mr. EDDISON

33—Standard tests and research methods—Continuation of Course 31-32. 2 hours and 1 afternoon. Professor PARR and Mr. EDDISON

35-36—Kinematics of machinery. 1 afternoon. Professor THOMAS

37—Machine design, short course for students in Chemical Engineering. 1 hour and 2 afternoons. Mr. MOSS

39-40—Machine design. 3 hours and 1 afternoon, first half-year, 2 hours and 2 afternoons, second half-year. Professor RAUTENSTRAUCH and Mr. MOSS

41—Machine design. Short course for students in Civil and Electrical Engineering. 1 hour and 1 afternoon. Professor THOMAS

45 or 46—Water-power machinery. 3 hours. Mr. HERRICK

50 or 53—Steam turbines. 3 hours. Professor PRESTON

52—Organization and management. 3 hours. Professor RAUTENSTRAUCH

54—Shop processes: tools and time study. 2 hours. Mr. HALSEY

56—Water-power installations. 1 hour. Mr. HERRICK

59—Empiric design. 2 hours and 1 afternoon. Professor THOMAS

60—Hydraulic laboratory. 1 afternoon first half of second half-year. Mr. HERRICK

63—Hydraulic laboratory. 1 afternoon. Mr. HERRICK

64—Air machinery. 2 hours. Mr. LONGACRE

66—Elevators and conveyors. 1 hour. Mr. MOSS

70—Pumping machinery. 2 hours. Mr. NICKEL

72—Gas-power machinery—Selections from 22. 2 hours and 1 afternoon. Professor LUCKE and Mr. THURSTON

74—Gas-power machinery—Selections from 22. 2 hours. Professor LUCKE

76-77—Standard tests—Selections from 31-32, 33. Professor PARR and Mr. HERRICK, Mr. WIESER and Mr. EDDISON

78—Kinematics—Selections from 36. 1 afternoon. Professor THOMAS

80—Experimental mechanical laboratory. 1 hour and 1 afternoon. Professor PARR

82—Heating and ventilation. 3 hours. Mr. OHMES

94s—Shop and factory, second summer work. Professor THOMAS

96s—Steam-power plant, third summer work. Professor PRESTON

97—Mechanical apparatus for chemical factories. 5 hours for 10 weeks in first term. Professor THOMAS

This department is equipped with lecture-rooms, collections of models **Equipment** and specimens to illustrate the lectures, and drafting-rooms provided with blue-prints, photographs, and catalogues of standard and special machinery supplied by manufacturers. Excellent facilities are also at hand for the prosecution of experimental work by undergraduate students and for graduate research. The experimental equipment includes all the standard and many special forms of measuring instruments, and an unusually large collection of full-size standard machinery, covering practically every important class.

METALLURGY

Professors: WALKER (*Executive Officer*)

Associate Professor: CAMPBELL

Assistant Professors: HALL and KERN

Assistant: BANKS

See introductory paragraphs, page 60

81 or 182—Assaying—Ores and metallurgical products. 2 hours and 3 afternoons. Professor HALL

101—General metallurgy. 3 hours, first half of term. Professor KERN

111—Metallurgy of copper. 3 hours, second half of term. Professor KERN

118—Metallurgy of copper—Advanced course. 1 hour. Professor KERN

122—Metallurgy of lead, silver, gold, and zinc. 3 hours. Professor WALKER

128—Metallurgy of lead, etc.—Advanced course. 1 hour. Professor WALKER

131—Metallurgy of iron and steel—Shorter course. 1 hour. Professor CAMPBELL

134—Metallurgy of iron and steel—Longer course. 2 hours. Professors WALKER and CAMPBELL

138—Metallurgy of iron and steel—Advanced course. 1 hour. Professor HOWE

141—Electrometallurgy. 1 hour. Professor KERN

148—Electrometallurgy—Advanced course. 1 hour. Professor KERN

151—Constitution and properties of alloys. 2 hours. Professor CAMPBELL

155-156—Metallography of iron, steel, and industrial alloys. Total of 6 lectures and 3 or more afternoons laboratory. Professor CAMPBELL

158—Advanced course on constitution and property of alloys. 1 hour. Professor CAMPBELL

62s—Summer course in non-ferrous metallurgy. Professor KERN

64s—Summer course in ferrous metallurgy. Professor CAMPBELL

66s—Summer course in non-ferrous metallurgy. Professors WALKER and KERN

82s—Summer school in assaying. Professor HALL

72—Metallurgical laboratory. 10 consecutive afternoons. Professors CAMPBELL and KERN

171-172—Metallurgical laboratory. 5 afternoons. Professors WALKER, CAMPBELL and KERN

173-174—Advanced metallurgical laboratory

175—Metallurgical investigation. 1 hour. Professor WALKER

77—Metallurgical plant construction. Professor WALKER

201-202—Special courses in pyrometry, the microstructure of metals and alloys, the chemistry of roasting processes, etc., consisting of personal instruction and original experimental investigation. Professors WALKER, CAMPBELL and KERN

METALLURGICAL EXCURSIONS—During the term the students see, at the metallurgical works near the city, iron blast furnaces, Bessemer and open-hearth steel making, lead and copper smelting, copper Bessemerizing and refining by furnace and electrolytic methods, the desilverizing of base bullion, and the parting and refining of gold and silver by electrolytic and acid methods.

Equipment The special equipment of the department contains many large lecture diagrams showing the various metallurgical appliances, and the sequence of metallurgical processes, besides many models, drawings, and apparatus for lecture demonstrations. There is also a collection of about 3000 specimens of ores, metals, and metallurgical products, and a rapidly forming collection of microscopic sections and photomicrographs of metals and alloys.

An Analytical Laboratory is open to the students in metallurgy. The Assay Laboratory is provided with crucible and muffle furnaces, both gas and coal, for the fire assay of ores; also with crushing, pulverizing, and sampling machinery, balance-room, store-room and well-equipped

working desks. It also contains all the apparatus necessary for the wet assay of silver bullion and for laboratory tests of ores.

In the metallurgical Laboratory there are enough Le Chatelier thermo-electric pyrometers to give each student the exclusive use of one throughout his course, and many others of various kinds, some of great precision, some with autographic attachments, etc. For the microscopic study of metals there are many special microscopes, with appliances for polishing, sclerometers, a drop-testing machine, a Fremont drop-testing machine, special testing machines for metals, ammeters, etc.

For Analytical Metallurgy there are many special furnaces heated by electricity or gas, a small power-driven roll-train, etc. For Applied Metallurgy there are, besides the common furnaces, special crucible melting furnaces, muffles, etc., two small reverberatory roasting furnaces, a set of lixiviating and precipitating vats, amalgamating pans, kettles for desilverizing lead, a chlorinating barrel, Abbé pebble-mill, Abbé jar-mill, storage batteries, voltmeters and ammeters for electrolysis, and a working stock of ores, refractory materials, fluxes, alloys, iron, and of very many varieties of steel.

The laboratory gives advanced students and practitioners unusual advantages for investigating accurately the scientific and many of the economic problems of metallurgy.

The Metallurgical Department has a special metallurgical library of about sixteen hundred volumes.

MINERALOGY

Professor: MOSES (*Executive Officer*)

Assistant Professor: LUQUER

Instructor: GARDNER

Assistant: BRUCE

See introductory paragraphs, page 60

1-2—Descriptive and determinative mineralogy. 3 hours lectures. 2 afternoons laboratory, first term; 3 hours lectures, 1 afternoon laboratory, second term. Professors MOSES and LUQUER, Mr. GARDNER, and Mr. BRUCE

3-4—General mineralogy. 2 hours lectures, 1 afternoon laboratory. Mr. GARDNER

5—The minerals of building-stones. 2 hours lectures, and 1 afternoon laboratory. Professor LUQUER and Assistants

6—Optical mineralogy—minerals in rock sections. 2 afternoons laboratory for two months. Professor LUQUER and Assistants

7-8—Descriptive and determinative mineralogy. 3 hours lectures, 1 afternoon laboratory. Professor MOSES and Assistants

10—Mineralogy and crystallography. 2 hours lectures, 1 afternoon laboratory. Professor MOSES

15-16—Mineralogy—Minerals important in the chemical industries. 3 hours afternoon laboratory. Professor MOSES and Assistants

207-208—Optical mineralogy. 1 hour lecture, 1 afternoon laboratory. Professor LUQUER

209-210—Physical crystallography. 1 hour lecture, 1 afternoon laboratory. Professor MOSES

211-212—Mineralogy—Study of assigned subject. 12 hours per week for two years. Professor MOSES

Summer

51—Gems and gem minerals. 3 points. Lectures and laboratory practice. Professor MOSES

5102—Methods of studying crystals. Half course. Lectures and laboratory lectures. Professor MOSES

5103—Determining crystal constants (laboratory). Half course. Professor MOSES

Equipment

The work of the students in the college courses and in general mineralogy is performed in the lecture-room, in the blowpipe laboratory, and in the adjoining conference-room, in which are the student collections of crystal models and minerals and several thousand unlabeled specimens used in determinative work. The department possesses also about 1200 sections of minerals and rocks, and 1500 crystal models in wood and glass. Students in optical mineralogy use a separate room with north light, and for crystal measurements and monochromatic light determinations there is provided a large dark-room.

The Egleston Mineralogical Museum contains about 30,000 labeled specimens, and includes a systematic collection; an economic collection of ores, building materials, and minerals used in chemical industries; a collection illustrating the genesis and alteration of minerals; a collection illustrating the characters of minerals; and small collections of artificial minerals and New York City minerals.

MINING

Professors: MUNROE (*Executive Officer*) and PEELE

Assistant Professor: KURTZ

Instructor: JUDD

See introductory paragraphs, page 60

51—Excavation and tunnelling. 3 hours. Professor PEELE

52—Boring and shaft-sinking. 2 hours. Professor PEELE

53—Excavation, tunnelling, boring, and shaft-sinking. Condensed from courses 51 and 52 for students in Civil Engineering. 2 hours. Mr. JUDD

54—Exploration, development, and methods of working. 3 hours. Professor MUNROE

56—Mine engineering. 3 hours. Professor MUNROE

- 71-72—Mine plant. 3 hours. Professor PEELE
73—Mine constructions. 1 hour. Professor PEELE
75—Design of mine plant. 4 afternoons. Professors PEELE and KURTZ and Mr. JUDD
77-78—Graduating thesis or project. Professor PEELE
80—Mill constructions. 1 hour. Professor KURTZ
81—Ore dressing, milling, and the mechanical preparation of coal. 4 hours. Professor MUNROE
82—Ore-dressing laboratory. Afternoon work for three weeks. Professors MUNROE and KURTZ and Mr. JUDD
91—Mine administration. 2 hours. Professors MUNROE and KURTZ
94—Mining law. 2 hours. Professor KURTZ
58—Summer class in mine surveying. 1 week. Professors MUNROE and KURTZ and Mr. JUDD
59—Summer course in practical mining. 6 weeks. Professors PEELE and KURTZ and Mr. JUDD

The summer course includes four to five weeks detailed study of the plant and methods of working at some important mine or mines selected for the purpose; and one to two weeks of excursions to other mines and mining regions. Arrangements are also made by which students in small groups may substitute, for the above, independent study at different mines under the general direction of the department.

Special courses, consisting of personal instruction, reading, and experimental investigations, will be arranged for advanced students according to their individual needs and ability. These investigations will be made at mines and dressing works, either in connection with the summer school or elsewhere as assigned, with additional work, as required, in the library and in the laboratories of the department. These courses vary in difficulty and in the amount of time necessary according as the student is a candidate for the degree of A.M. or Ph.D. and according as he pursues mining as a major or a minor subject. The time required is governed by the rule that a course or courses should occupy about 20 hours a week (outside reading and study included) if taken as a major subject, and about 10 hours a week if taken as a minor subject. The following may be offered as a degree of A.M. by students who have had the appropriate prerequisites.

101-102—Mining and ore dressing—Mining 54, 81, and 82. 4 hours, with laboratory work and reading as required. Double course.

Under the regulations for the degrees of A.M. and Ph.D. the following courses may be offered by graduate students who have had all the undergraduate courses in Mining or their equivalent:

201-202—Methods of mining—Critical study of methods used in some mining region, or for a certain class of deposits.

203-204—Mining plant—Critical study of rock drilling, or coal cutting, or hoisting, or haulage, or ventilating plant at some mine or mines.

207-208—Ore dressing—Critical study of some detail of the ordinary dressing methods.

213-214—Economic studies in mining—Study of existing conditions affecting the production and cost of some mineral or metal.

Equipment The lectures on mining are illustrated by sets of books containing 120,000 blue-prints from negatives made for the purpose. There are a sufficient number of these books to enable each student to have the use of one or more for reference during the lectures and for home study. These blue-prints have many advantages over the usual form of lecture illustrations by lantern slides or wall diagrams. The latter, however, are used when necessary to supplement the blue-prints.

The University Library contains sets of the transactions of all mining, metallurgical, and engineering societies, and of the more important periodical publications on these subjects. There is also a large collection of books on mining, and all new publications of value are added as they appear. In addition, a small departmental reference library has been created, which is accessible to students at all times.

The subject of mining is illustrated by collections as follows: Maps of coal and metal mines of this and other countries. Working drawings, diagrams, and photographs of mine plant, and of mining and dressing machinery. Models of mines and parts of mines and of mine plant. Mining tools: picks, shovels, hammers, drills, blasting apparatus, lamps, safety-lamps, anemometers, and machine drills. Ores and dressing products from typical works in this and other countries. Surveying instruments: geological compasses and clinometers, attraction compasses, dipping needles, hanging compasses and arcs, transits, lamp signals, rods, and apparatus for plumbing and measuring shafts.

The basement and sub-basement of the School of Mines are equipped as laboratories for the Department of Mining. These laboratories serve four purposes: 1. To illustrate the physical laws bearing on mineral separation. 2. To afford opportunity for quantitative working tests. 3. To train students in the adjustment and operation of concentrating machinery, and in the making of efficiency tests under working conditions. 4. To give advanced students and others all necessary facilities for original investigation.

Many coal, iron, and other mines, slate and stone quarries, and metallurgical works are easily accessible. Within a radius of one hundred miles of New York City may be studied numerous examples of the best practice in mining and metallurgy under most varied conditions, and some of the most modern and effective mining and dressing machinery and smelting plants in the country. The excursions of the Summer Class in

Mining extend as far as the iron, copper, zinc, lead, silver, and gold regions of Michigan, Missouri, Montana, Colorado, Arizona, Utah and California.

The metropolitan situation of the School renders it possible to present, also, as parts of the regular courses in mining, special lectures by prominent engineers. The list of such lecturers and more detailed information as to the courses offered and as to the facilities of instruction will be found in the *Announcement of the Schools of Mines, Engineering, and Chemistry*.

MUSIC

Professor: HALL (W. H.), RUBNER (*Executive Officer*)

Associate Professor: FARNSWORTH

Assistant Professor: MASON

Associate: WARD

Lecturer: HALL (L.)

See introductory paragraphs, page 60

1-2—History of music. 2 hours. Mr. LELAND HALL

3-4—History of music. 2 hours. Mr. LELAND HALL

7-8—Harmony. 3 hours. Mr. WARD

9-10—Advanced harmony and elementary form. 2 hours. Mr. WARD

11-12—Counterpoint. 2 hours. Mr. WARD

13-14—Composition and orchestration. 2 hours. Professor RUBNER

31-32—University orchestra. 2 hours. Professor RUBNER

101-102—Advanced composition and orchestration. 2 hours. Professor RUBNER

103-104—Orchestration and Symphonic form. 2 hours. Professor RUBNER

sX—Chorus. WALTER HENRY HALL

Summer

s1-2—History and appreciation of music. 2 points. Professor COLE

s7-8—Harmony. 2 points. Professor COLE

s10—Counterpoint. 2 points. Professor COLE

s35—Sight-singing, its history and psychology. 2 points. Mr. BECKER

e33-34—University chorus. 2 points. Mr. HALL

Extension

eZ1-Z2—Sight-reading and accompanying for key-board instruments. 2 points. Mr. LAMOND

e53-54—Introductory harmony. 2 points. Mr. KRAFT

Fourteen courses in teaching and supervision of music are offered at Teachers College. (See the *Announcement of Teachers College*.)

A collection of music and of books of reference is placed at the disposal of students. It includes the complete works of various composers, **Equipment**

many orchestral and opera scores, the piano-forte classics, and vocal music, besides many theoretical, historical, and biographical works. The private library of the Anton Seidl, consisting of 1220 scores, was presented to the University and has been placed in the rooms of the School of Music. The department has also a collection of instruments for the use of students participating in the University Orchestra.

The Department of Music offers two annual recitals of original compositions by students in the department, and the regular concerts of the University Orchestra and the University Chorus.

The Institute of Arts and Sciences offers numerous concerts and recitals. See special bulletin.

NATURE STUDY

Five courses in nature study for elementary and high schools are offered under the auspices of Teachers College. For details see the *Announcement of School of Education*. (See also Botany and Zoölogy.)

NEUROLOGY

Professor of Neurology: STARR (*Executive Officer*)

Professor of Psychiatry: PETERSON

Associate Professor: HUNT (J. R.)

Associates: GREGORY and SCRIPTURE

Instructors: HABERMAN and HUNT (E. L.)

Clinical Assistants: *Neurology*—ATWOOD, BOEHME, BRILL, CLARK (J. E.), FISK, GARRETSON, HOLMES, MACRAE, MACUMBER, MARKS, MCENTEE, POU, SHARPE

Psychiatry—BRILL, HAVILAND, and POU

See introductory paragraphs, page 60

Courses 201-202 and 205 are open to candidates for the degree of A.M. or Ph.D.

201-202—Neurology: The diseases of the nervous system. 1 hour. Professor STARR

203-204—Clinical lectures in neurology, including diseases of the mind. 1 hour. Professors STARR and J. RAMSAY HUNT and Drs. HABERMAN and SCRIPTURE

205—Psychiatry. 1 hour. Professor PETERSON

207-208—Practical instruction in the methods of examination of nervous patients, electro-diagnosis and electro-therapeutics. 2 hours. Professor J. RAMSAY HUNT and Drs. E. L. HUNT, HABERMAN and SCRIPTURE

209-210—Practical instruction in the methods of examination of insane patients. 1 hour. Dr. GREGORY

251-252—Research in neurology. Dr. SCRIPTURE

Sixteen courses in Nurses' Education, Hospital Administration, School Nursing and Municipal Nursing are provided by the School of Household Arts and Health of Teachers College and described in the special circular of that School and of the Department of Nursing and Health.

OBSTETRICS

Professors: CRAGIN (*Executive Officer*) and PAINTER

Associate Professor: VOORHEES

Associate: DAVIS

Instructor: LYON

Assistant: SICARD

See introductory paragraphs, page 60

102—Recitations and demonstrations in obstetrics. 2 hours. Professor VOORHEES

201—The theory and practice of obstetrics. 3 hours. Professor CRAGIN

203-204—Practical instruction in obstetrics. Dr. LYONS

205-206—Out-patient service in obstetrics. Professor PAINTER and Drs. DAVIS and SICARD

ORIENTAL LANGUAGES

Professor: HIRTH

Chinese

Courses 101-102, 103-104, and 105-106, are open to Seniors in Columbia College

101-102—Elementary course—Study of Chinese characters and language. 3 hours. Professor HIRTH

103-104—Beginners' course in the Mandarin dialect. 2 hours. Professor HIRTH

105-106—History, language, literature, government, art, and social life of the Chinese. For students who need not study the language. 2 hours. Professor HIRTH

201-202—Analysis and translation of easy documents written in the Chinese modern business style. 2 hours. Professor HIRTH

203-204—Analysis and translation of easy literary texts. 2 hours. Professor HIRTH

205-206—Helps and keys in Chinese literature. 2 hours. Professor HIRTH

301-302—Seminar for the study of Chinese government matters. Professor HIRTH

303-304—Seminar for historical studies in Chinese literature. Professor HIRTH

305-306—Seminar for the study of Chinese art, industry, and general culture. Professor HIRTH

Professor: JACKSON

Lecturer: YOHANNAN

Indo-Iranian

See introductory paragraphs, page 60

101—Sanskrit, first course. Grammar and reading of texts. 3 hours.
Professor JACKSON

102—Sanskrit, second course. Reading of texts. 3 hours. Professor JACKSON

103—Avestan, first course. Grammar and reading of texts. 2 hours.
Professor JACKSON

104—Avestan, second course. Reading of texts. 2 hours. Professor JACKSON

105—Sanskrit, advanced course. 2 hours. Professor JACKSON

106—Sanskrit, advanced course. 2 hours. Professor JACKSON

107-108—Modern Persian, introductory course. 2 hours. Dr. YOHANNAN

109-110—Modern Persian, second course. 2 hours. Dr. YOHANNAN

115—History of India and of Persia. 2 hours. Professor JACKSON

201-202—Avestan, advanced course. 2 hours. Professor JACKSON

203-204—Pali, elementary course. 1 hour. Professor JACKSON

205—Old Persian cuneiform inscriptions. 1 hour. Professor JACKSON

206—Pahlavi, introductory course. 1 hour. Professor JACKSON

207-208—Sanskrit literature. 1 hour. Professor JACKSON

209—Zoroastrian Gathas. 1 hour. Professor JACKSON

210—Zoroaster and Buddha, their life and teachings. 1 hour. Professor JACKSON

211-212—Modern Persian, second-year course. 2 hours. Dr. YOHANNAN

301-302—Indo-Iranian seminar. Professor JACKSON

Armenian 213-214—Principles of the grammar with selected readings. 2 hours.
Dr. YOHANNAN

Turkish 215-216—Principles of the grammar. 2 hours. Dr. YOHANNAN
217-218—Advanced course in Turkish. 2 hours. Dr. YOHANNAN
219-220—Exercises in Turkish conversation and in the reading of Turkish newspapers. 2 hours. Dr. YOHANNAN

Science of Language 111-112—Introduction to the study of language. 2 hours. Professor JACKSON, in coöperation with Professors BOAS (American languages), FARRAND (linguistic pathology), GOTTHEIL (Semitic), HIRTH (Chinese), KRAPP (English), LODGE (Latin), PERRY (Greek), PRINCE (Sumerian and Egyptian), REMY (Germanic and special linguistic phenomena), TODD (Romance)

113-114—Types of language. 2 hours. First half-year: Indo-European and Semitic languages. Second half-year: American and Central and Eastern Asiatic languages. The Professors of the various departments concerned

Professors: GOTTHEIL (*Executive Officer*) and PRINCE

Semitic

Lecturers: HURWITZ and VANDERBURGH

See introductory paragraphs, page 60

101-102—Biblical Hebrew, elementary course. 2 hours. Professor GOTTHEIL and Dr. HURWITZ

103—Biblical Hebrew, second course. Psalms. 2 hours. Professor PRINCE

103A—Biblical Hebrew, second course. Unpointed Hebrew. Professor GOTTHEIL

104—Biblical Hebrew, third course. The book of Job. 2 hours. Professor GOTTHEIL

105—Biblical Hebrew, fourth (lecture) course. Semitic Archaeology and its bearings upon the study of the Bible. 2 hours. Professor GOTTHEIL

1-2—The History, Literature, and Religion of the Old Testament in outline. Professor BROWN. 2 half courses. **Union Seminary**

13-28—Rapid Reading of Deuteronomy and Kings. Professor BEWER. 2 half courses.

33-36—Exegetical Class: Exodus, Ecclesiastes. Professor BEWER. 2 half courses.

29-30—Jeremiah, Isaiah XL-LV. Professor BEWER. 2 half courses.

95-96—Seminar: Hosea. Professor BEWER. 2 half courses. 2 hours.

106—Textual Criticism of the Old Testament. Professor BEWER. Half course. 2 hours.

107-108—Selected Readings from the Mishnah. 2 hours. Professor GOTTHEIL **Rabbinical Hebrew**

109-110—Selected readings from the poets of the Middle Ages. 2 hours. Professor GOTTHEIL

201—Lectures on Post-Biblical Hebrew Literature. 2 hours. Professor GOTTHEIL

203—Interpretation of the Phoenician inscriptions, with an introduction to Semitic palaeography and the history of the alphabet. 2 hours. Professor GOTTHEIL **Epigraphy**

204—Interpretation of Aramaean inscriptions. 2 hours. Professor GOTTHEIL

[205—Interpretation of the Sabaeen and Himyaritic inscriptions contained in the *Corpus Inscriptionum Semiticarum*, vol. iv. 1 hour. Professor GOTTHEIL]

111—Elementary course. 2 hours. Professor PRINCE

112—Second course—Study of the Syllabary with readings from Delitzsch's *Assyrische Lesestücke* (4th ed., 1901). 2 hours. Professor PRINCE **Assyrian**

209—Third course—Study of texts. 2 hours. Professor PRINCE

209A—Third course—Readings from Babylonian texts. Dr. VANDERBURGH

210—Fourth course—Study of iv Rawlinson. 2 hours. Professor PRINCE

210A—Readings from Bilingual texts. 1 hour. Dr. VANDERBURGH

211—Advanced course—Sumerian Lexicography. Susian texts. 2 hours. Professor PRINCE

212—Advanced course—Sumerian hymns from cuneiform texts in the British Museum. 2 hours. Professor PRINCE

Arabic 113—Elementary course. 2 hours. Dr. HURWITZ

114—Second course. 2 hours. Dr. HURWITZ

213—Advanced course—Selections from the Koran. 2 hours. Professor GOTTHEIL

214—Advanced course—Selections from the Sahih of al-Bukhari. 2 hours. Professor GOTTHEIL

215-216—Modern Arabic, Dialect of Egypt. Professors GOTTHEIL and PRINCE

Syriac 115—First course. 2 hours. Dr. HURWITZ

116—Second course. 2 hours. Dr. HURWITZ

117—Third course. 2 hours. Professor GOTTHEIL

118—Fourth course. 2 hours. Professor GOTTHEIL

Ethiopic 216-217—Principles of the grammar, and reading of extracts. Professor GOTTHEIL

History 119—The ancient history of western Asia from the earliest times until the period of Cyrus the Persian. Professor PRINCE

This course is identical with History 109

120—The rise of Arabian civilization and the spread of Mohammedanism. 2 hours. Professor GOTTHEIL

This course is identical with History 104

[122—Political and social evolution of modern Turkey and Egypt. 2 hours. Professor GOTTHEIL]

This course is identical with History 154

Semitic Seminar 123-124—Lectures on comparative Semitic grammar. 2 hours. Professors GOTTHEIL and PRINCE and Dr. HURWITZ

301-302—Study of current questions in Semitic philology and history with especial reference to modern methods of research. Professors GOTTHEIL and PRINCE

- 218—Elementary course in Coptic. 1 hour. Professor PRINCE **Egyptian**
 [219—Egyptian hieroglyphs and advanced Coptic. Professor PRINCE]

PATHOLOGY

Professor: MACCALLUM (*Executive Officer*)

Assistant Professors: JOBLING and LARKIN

Associates: LAMBERT and PAPPENHEIMER

Instructors: HUMPHREYS and SITTENFIELD

Assistants: COULTER, FIELD, LAMB and STILLMAN

See also introductory paragraphs, page 60

Courses 101-102, 105-106, 107, 201-202, and 251-252 are open to candidates for the degree of A.M. or Ph.D. Courses 101-102, 105-106, 107, 113-114, 201-202, 203, 205, and 251-252 are open to graduates in medicine.

101-102—General and special pathology. 3 hours, first half, and 9 hours, second half of second year. Professors MACCALLUM and JOBLING and Drs. PAPPENHEIMER, LAMBERT, and others.

103-104—Conference in pathology. 1 hour. Professor MACCALLUM

105-106—Gross pathological anatomy and attendance upon autopsies. 2 hours. Professors MACCALLUM, JOBLING, and LARKIN, Drs. FIELD, LAMB, and others

107—Experimental pathology. 3 hours. Professor MACCALLUM

109-110—Microscopical study of autopsy material. 3 hours. Dr. LAMB

111-112—Conference on topics in pathology. 1 hour. Professor MACCALLUM

113-114—Clinical and pathological conference. 1½ hours. Professors MACCALLUM, JANEWAY, and LONGCOPE and Drs. PAPPENHEIMER, LAMB, and others

201-202—Advanced pathology. The officers of the department

203—Pathology of liver. 2 hours. Dr. LAMBERT

204—Pathology of diseases of children. 2 hours. Dr. PAPPENHEIMER

205—Pathology of certain common diseases: arteriosclerosis, endocarditis, myocarditis. 3 hours. Professors MACCALLUM and LONGCOPE

251-252—Research in pathology. Professor MACCALLUM and staff

The department of pathology occupies the greater part of the fourth **Equipment** floor of the north building of the college, together with large class laboratories, amphitheatre, photographic rooms, etc., on the fifth floor. On the fourth floor there are, besides the rooms devoted to the staff, large rooms with abundant desk room for special workers, several specially equipped operating rooms for aseptic experimental work, a small chemical laboratory, the museum, preparation rooms, cold storage, etc. Two rooms on this floor are occupied by the library, which is accessible to workers in this and related departments. The museum of pathology is used both for the

instruction of medical students and as a place of deposit for specimens showing new or rare forms of lesion. On the roof there is commodious accommodation for animals together with small special rooms for experimental work. The entire space is amply lighted, fully furnished and equipped with apparatus necessary for routine teaching and special research.

PHARMACY

The New York College of Pharmacy is the Division of Pharmacy of Columbia University. In the section of the Catalogue devoted to the College of Pharmacy will be found a list of its officers and information as to the equipment and method of instruction. The Program of Studies includes the following courses:

Junior Physics—Lectures and recitations, Professor ARNY; laboratory, Professor ARNY and Mr. HOSTMANN

General and Pharmaceutical Chemistry—Lectures, Professor ARNY; recitations, Professor OEHLER

Analytical Chemistry—Laboratory work and Theoretical course, Professor VORISEK; recitations, Dr. LESLIE

Theory of Pharmacy—Lectures, Professor DIEKMAN; recitations, Mr. ROON

Practical Pharmacy—Laboratory course, Professors DIEKMAN and WIMMER and Mr. ROON

Dispensing Pharmacy—Laboratory course, Professors DIEKMAN and WIMMER

Physiology—Lectures, Professor RUSBY; recitations, Dr. BALLARD

Botany—Lectures, Professor RUSBY; recitations, Dr. BALLARD

Pharmacognosy—General laboratory course, Professor RUSBY; histological laboratory course, Professor MANSFIELD and Dr. BALLARD

Posology and Toxicology—Recitations, Dr. BALLARD

Biology (University Class)—Professor MANSFIELD

Senior General Organic, Pharmaceutical and Medical Chemistry—Lectures, Professor ARNY; recitations, Professor OEHLER

Analytical Chemistry—Laboratory work, Professor VORISEK and Dr. LESLIE

Urine Analysis—Chemical laboratory courses, Professor VORISEK; Microscopical laboratory courses, Professor MANSFIELD

Practical Pharmacy—Lectures, Professor DIEKMAN; laboratory course, Professors DIEKMAN and WIMMER and Mr. ROON

Dispensing Pharmacy—Laboratory course, Professors DIEKMAN and WIMMER and Mr. ROON

Materia Medica—Lectures, Professor RUSBY; recitations, Dr. BALLARD

Toxicology—Lectures, Professor RUSBY; recitations, Dr. BALLARD

Commercial Pharmacognosy—Laboratory, Professor MANSFIELD and Dr. BALLARD

Histological Pharmacognosy—Laboratory course, Professor MANSFIELD and Dr. BALLARD

Biology—University Class, Professor MANSFIELD

Plant Analysis—Laboratory, Professor RUSBY

Graduate

Technical Microscopy—Laboratory, Professor MANSFIELD

Bacteriology—Laboratory course, Professor JESSUP

Inorganic Quantitative Analysis—Laboratory, Professor VORISEK

Organic Analysis and Toxicology—Laboratory, Professor ARNY

Pharmaceutical Assaying—Lectures and laboratory work, Professors DIEKMAN and WIMMER and Mr. ROON

Physiological Chemistry—Lectures, Professor GIES

Plant Analysis—Professor RUSBY

Food and Drug

Commercial Organic Analysis and Toxicology—Lectures and laboratory course, Professor ARNY

Inorganic Quantitative Analysis—Lectures and laboratory course. Professor VORISEK

Pharmaceutical Assaying—Lectures and laboratory course, Professors DIEKMAN and WIMMER and Mr. ROON

Technical Microscopy—Laboratory course, Professor MANSFIELD

Bacteriology—Professor JESSUP

Food and Drug Inspection—Lectures, Mr. DUFF

PHILOSOPHY AND PSYCHOLOGY

Professors: ADLER, CATTELL, DEWEY, FULLERTON, LORD, MACVANNEL, MILLER (D. S.), SUZZALLO, THORNDIKE (E. I.), WOODBRIDGE (*Executive Officer, Philosophy*), and WOODWORTH (*Executive Officer, Psychology*)

Associate Professors: BUSH, JONES, MONTAGUE, NORSWORTHY PITKIN

Assistant Professor: RUGER

Instructors: BROWN, COOLEY, HOLLINGWORTH, MCCLURE, and WHITLEY

Lecturers: COSS, LEVITT and POFFENBERGER, BIRCH

Non-resident Lecturer: CLIFFORD, OVERSTREET and KEMP SMITH

Assistants: PECKHAM, REJALL and WILLIAMSON and COY

See introductory paragraphs, page 60

A1-A2—Introductory Course. (Columbia College). Principles of Science. Professors JONES and MILLER, Dr. BROWN, Dr. COOLEY, Dr. MCCLURE, Mr. COSS and Mr. LEVITT

Barnard College—First half-year, psychology; second half-year, logic. Professor MONTAGUE, Dr. BROWN and Dr. HOLLINGWORTH

School of Journalism—Professor PITKIN

10—Problems in Philosophy. Professor MONTAGUE (Columbia)

21-22—Ethics. Professor LORD

61-62—History of philosophy. Professor WOODBRIDGE (Columbia), Professor MONTAGUE and Dr. BROWN (Barnard)

79—Introduction to contemporary philosophy and metaphysics. Professor MONTAGUE and Dr. BROWN (Columbia), Dr. BROWN (Barnard)

Conference Course. For qualified students in Philosophy 61-62, History 71-72 and English 21-22.

104—Analysis of experience. Full course. Professor DEWEY

111—Central problems of life and mind. Full course. Professor OVERSTREET

123-124—History of ethics. Two full courses. Dr. COOLEY

126—Critique of modern philosophical systems. Full course. Professor ADLER

131A-132A—Moral and political philosophy. Two full courses. Professor DEWEY

131B-132B—Moral and political philosophy. Two half courses. Professor DEWEY

142—Aesthetics. Full course. Dr. BROWN

165—Continental philosophy. Full course. Professor DEWEY

166—British philosophy. Full course. Professor KEMP SMITH

175—Scholasticism. Full course. Father CLIFFORD

181-182—Philosophy of education. Two full courses. Professor MACVANNEL

219—Research work in symbolic logic. Full course. Dr. BROWN

225-226—Development of the moral life. Two full courses. Professor ADLER

271—Early Greek philosophy. Full course. Professor WOODBRIDGE

272—Plato and Aristotle. Full course. Professor WOODBRIDGE

279-280—Contemporary philosophy. Two half courses or two full courses. Professor MONTAGUE

281-282—Practicum—Philosophy of education. Two full courses. Professor MACVANNEL

292—(Same as Philosophy of education 210)—Philosophy and education in their historic relations. Full course. Professor DEWEY

301-302—Departmental conferences are held bi-weekly throughout the year. Candidates for the degree of A.M. or Ph.D. are expected to attend and participate

321-322—Joint seminar with the department of anthropology

Education 108A—Educational sociology—Social theory of education. Half course. Professor SUZZALLO

Education 108—Educational sociology—Social interpretation of educational methods. Half course. Professor SUZZALLO

Mathematics 311-312—The theory of point sets. 3 hours. Two full courses. Dr. LENNES

Mathematics 323-324—The principles of mathematics. 3 hours. Professor KEYSER

Latin 205-206—Roman philosophy. Two full courses. Professor MOORE

Jurisprudence 161—Elements of law. 3 hours. Professor MUNROE SMITH

History 121-122—The history of the intellectual class in Europe from the Greek sophists to the French philosophers. 3 hours. Professor ROBINSON

History 223—Primitive institutions, Paganism and Christianity. Full or half course. Professor SHOTWELL

Economics 242—Radicalism and social reform as reflected in the literature of the nineteenth century. 2 hours. Professor SIMKHOVITCH

Economics 242—Radicalism and social reform as reflected in the literature of the nineteenth century. Full course. Professor SIMKHOVITCH

History 279—General history of political theories, ancient and medieval. 2 hours. Professor DUNNING

History 280—General history of modern political theories. 2 hours. Professor DUNNING

History 281—American political philosophy before 1850. 2 hours. Professor DUNNING

History 282—American political philosophy since 1850. 2 hours. Professor DUNNING

411-416—Philosophy of religion. (At the Union Theological Seminary.) Professor MILLER

417-420—Philosophy of religion. Professor MILLER (at the General Theological Seminary)

421-426—Ethics. Professor T. C. HALL (at the Union Theological Seminary)

427-430—Ethics. Professor HUNT (at the General Theological Seminary)

sA1—Principles of science: methods, deductive and inductive logic. **Summer** 3 points. Dr. BROWN

sA2—Principles of science: concepts and problems of philosophy. 3 points. Professor MONTAGUE

s21—Individual and social ethics. 3 points. Professor OVERSTREET

s121—Social and political philosophy. Full course. Professor OVERSTREET

s161—History of ancient philosophy. Dr. BROWN

s162—The history of modern philosophy. Professor MONTAGUE

s163—Evolutionary ideas in recent philosophy. Full course. Professor DEWEY

- Extension** eA1—Principles of science: methods, deductive and inductive logic. 3 points. Dr. BROWN
 eA2—Principles of science: concepts and problems of philosophy. 3 points. Dr. BROWN
 e61-62—History of philosophy. 4 points. Dr. COOLEY
 e79-80—Contemporary philosophy. 4 points. Professor MONTAGUE
- Psychology** 1-2—Elements of general psychology. Professor LORD
 3-4—Experimental psychology, introductory course. Professor WOODWORTH and Dr. POFFENBERGER assisted by Mr. WILLIAMSON
 7-8—Experimental psychology, introductory course. Dr. HOLLINGWORTH
 9-10—Experimental psychology, intermediate. Dr. HOLLINGWORTH
 21-22—(Same as Education 21-22)—Child psychology. Professor NORSWORTHY
 23-24—(Same as Education 24)—The psychology and education of exceptional children. Dr. BISCH
 103-104—Experimental study of the intellectual processes. Two full courses. Professor WOODWORTH and Dr. POFFENBERGER
 111-112—Experimental psychology, advanced course. Two half or two full courses. Professor CATTELL
 113-114—Experimental psychology. Laboratory work. Two half or two full courses. Professor CATTELL and Mr. REJALL
 117-118—Application of experimental and physiological psychology to education. Two half courses. Professor RUGER
 120—The applications of analytic and genetic psychology to education. Half course. Professor NORSWORTHY
 121-122—Educational psychology. Professor THORNDIKE and Miss COY
 123—The psychology of the elementary school subjects. Half course. Professor THORNDIKE
 131-132—Physiological psychology. Two full courses. Professor WOODWORTH
 133-134—Laboratory course in physiological psychology. Two half courses. Dr. POFFENBERGER
 135-136—Pathological psychology. Two full courses. Professors STARR, PETERSON and WOODWORTH and Dr. HABERMAN
 161-162—Advanced systematic psychology. Two full courses. Dr. POFFENBERGER
 171¹-172—The psychology of religion
 201-202—Problems and methods of experimental psychology. Two full courses. Professor WOODWORTH
 221-222—(Same as Education 221-222)—Educational psychology, advanced. Two full courses. Professor THORNDIKE and Miss COY

¹ Union Theological Seminary.

223-224—(Same as Education 223-224)—Practicum—Application of psychological and statistical methods to education. 2 hours. Professor THORNDIKE

232—The psychology of thinking. Professor WOODWORTH

235-236—Pathological psychology, advanced course. Two half or two full courses. Professor WOODWORTH

251-252—Neurology and psychiatry. Professors STARR, PETERSON and HUNT and Drs. SCRIPTURE and HABERMAN

281-282—Seminar in psychology. 2 hours. Professors CATTELL and WOODWORTH

283-284—Research in psychology. Two half, two full, or two double courses. Professors CATTELL and WOODWORTH and Drs. HOLLINGWORTH and POFFENBERGER

301-302—Colloquium in psychology. Professor CATTELL

321-322—Seminar in educational psychology. Professor THORNDIKE

81—Elements of psychology. 2 points. Professor MEYER

Summer

8101 or 8101a—Animal and comparative psychology. Full or half course. Professor WASHBURN

8104 or 8104a—Experimental psychology. Full or half course. Professor WOODWORTH

8131—Physiological psychology. Professor WOODWORTH

8135—Pathological psychology. Full course. Dr. HOLLINGWORTH

8141—Applied psychology. Half course. Dr. HOLLINGWORTH

8165—Social psychology. Full course. Professor WASHBURN

8283 or 8283a—Research course. Full or half course. Professor WOODWORTH

e1-2—Elements of psychology. 3 points. Dr. HOLLINGWORTH

Extension

e3-4—Experimental psychology. 2 points. Mr. WILLIAMSON

e141-e142—Psychology of advertising. Half course. Dr. STRONG

e144—Laboratory work in advertising. Half course. Dr. STRONG

e145-146—Applied psychology. Half course. Dr. STRONG

The library facilities of Columbia University and of the city of New York, for students of philosophy and psychology, are unusually good. The collection of books on the history of philosophy in the University Library is very large, that on Kant and his philosophy being especially complete. About 1000 periodicals are regularly received, and among them will be found every journal of importance, American or foreign, dealing with philosophy or psychology. Duplicates of the more important psychological books and journals are placed in the Psychological Laboratory, where there is also a card index of psychological literature containing over 25,000 titles. Students of psychology will also find much

Equipment

of value in the Library of the Academy of Medicine, 17 West 43rd Street, which is open to students free of charge. The New York Public Library is available for students, when introduced by one of the instructors, on especially favorable terms.

The Psychological Laboratory in Schermerhorn Hall, besides the lecture-room and laboratories for introductory courses, contains ten rooms available for research work, some of them being specially constructed for particular sorts of psychological experiments. There is also a departmental library of the most important original literature of experimental psychology, and a well-equipped workshop in which much of the apparatus required for research or for laboratory courses is made by the aid of a skilled instrument-maker. The collection of apparatus includes that required for demonstration in courses in experimental and physiological psychology and for laboratory work in the same subjects; the outfit of an anthropometric laboratory with a full equipment for various forms of mental tests; an adding machine and other aids in statistical work; and apparatus that has been used or is being used in research.

PHYSICAL EDUCATION

Professor: WOOD (*Executive Officer*)

Associate Professor: MEYLAN

Instructors: ELLIOTT and KIRKPATRICK

Assistants: HOLM, KENNEDY, WEEMAN, BLOOM, MASON, GOODMAN, SPRINGER, SPENCE, JENSEN, BUSH (A. M.), and LUFT

See introductory paragraphs, page 60

Hygiene 1-2—Lectures, quizzes, and reports on topics of personal and community hygiene. 3 hours. Professor MEYLAN

A1-A2—Elementary graded gymnastic exercise and lectures on personal hygiene. 2 hours. Dr. ELLIOTT and Assistants

B1-B2—Graded gymnastic exercises, and lectures on personal and community hygiene. 2 hours. Professor MEYLAN, Mr. KIRKPATRICK and Assistants

eX1-X2—Gymnastics. Dr. ELLIOTT

eY1-Y2—Swimming. Mr. KENNEDY

eZ1-Z2—Boxing. Mr. WEEMAN

A1-A2—Lectures on personal hygiene, elementary athletics, games, and dancing. In sections. 2 hours. Miss BEEGLE

B1-B2—Lectures on hygiene and sanitation, athletics, games, and dancing. In sections. 2 hours. Miss BEEGLE

C1-C2—National folk and aesthetic dancing. 2 hours. Miss BEEGLE

D1-D2—Hygiene and public health problems. 1 hour. Miss BEEGLE

There are also twenty-three courses given under the auspices of Teachers College: Hygiene A, 87, Physical education 1-2, 5-6, 9-10, 55-56, 57-58, 59-60, 64, 65, 66, 67-68, 75-76, 77-78, 80, 87, Education 88, 89-90, 187-188, 189-190, 287-288, 289-290, Physical training A, and B.

The main exercising room is semicircular in shape, and has a floor area of 16,000 square feet. The ceiling is 35 feet high, and the room is well lighted and well ventilated, both naturally and artificially. The running track is 11 feet wide, with ends raised, and measures 10 laps to the mile. On the same floor as the running track are the Gymnasium and Director's offices, an auxiliary gymnasium 40 X 60 feet, rooms for fencing, boxing, and handball, two large dressing-rooms with 2000 steel lockers, and 32 shower-baths. Below the exercising room is the swimming pool, semicircular in shape; it measures 100 by 50 feet on its axes, and contains 200,000 gallons of water which is filtered and sterilized daily. The depth is from 4 to 10 feet. Around the pool are the dressing-rooms and 20 shower-, needle-, and tub-baths. On this floor is also a large room and two dressing-rooms equipped with shower-baths and lavatories, for the use of the various athletic teams. **Equipment**

The athletic field is equipped with a $\frac{1}{4}$ -mile running track, baseball field, facilities for jumping, pole vaulting, putting the shot, etc., seven tennis courts, and a dressing-room with 2000 lockers and shower-baths.

The Gould Boat-house, located on the Hudson River, at the foot of 116th Street, is equipped with boats of all descriptions, lockers, baths, etc.

The Frederick Ferris Thompson Memorial Building, given to Teachers College by Mrs. F. F. Thompson, has been recently completed. It is a building of four stories devoted to the purpose of physical education and school hygiene. It contains offices, examination rooms, lecture- and classrooms, laboratories, handball courts, bowling alleys, a swimming pool, four gymnasiums, rooms for corrective exercises, dressing-rooms, shower-baths, fencing-room, and a suite of rooms for photographic purposes. This building provides physical-training facilities for the women, the pupils of the Horace Mann School, and the varied equipment for the theoretical and practical instruction of professional students in physical education.

The Gymnasium is open daily during the academic year, except on Sundays and legal holidays, from 8.30 A.M. to 6.30 P.M., Tuesdays, Wednesdays and Fridays, and 8.30 A.M. to 10 P.M., Mondays, Thursdays and Saturdays. It is closed for the entire day only on Thanksgiving, Christmas, New Year's, and Good Friday. On all other holidays it is open from 3 to 6 P.M. One or more of the instructors are on the floor at all times when the Gymnasium is open.

A course in physical education is required of all Freshmen and Sophomores in Columbia College, and first- and second-year students in the School of Mines, Engineering and Chemistry, except students holding degrees from other colleges; also first-year students in the School of Journalism and the School of Architecture. A physical examination is required of each student in these classes upon entrance and at the end of the second year, and of all other students taking part in athletics.

Every student is entitled to a physical examination by the Medical Director. On the basis of this examination advice is given as to the kind and amount of exercise best adapted to his needs.

PHYSICS

Professors: POOR,* PUPIN, WENDELL, WILLS and WOODHULL

Associate Professors: MALTBY and PEGRAM (*Executive Officer*)

Assistant Professors: BURNSIDE, DAVIS, SCHROEDER and TROWBRIDGE

Instructors: FARWELL, LANGFORD, MORSE, SEVERINGHAUS, STIFLER, WEBB, WEINRICH and WHITTEMORE

Lecturers: BLANCHARD and DAY

Assistants: BRAININ, BRANT, GOUCHER, MURPHY, SAYLOR, SCOTT and ULREY

See introductory paragraphs, page 60

- Experimental Physics, Mechanics and Mathematical Physics**
- A1-A2**—General elementary physics. *C* 3 hours and *L* 2 hours. Professor DAVIS, Mr. FARWELL, and Mr. SAYLOR
- 1**—Mechanics: statics. 2 hours. Professors BURNSIDE and SCHROEDER, and Mr. WHITTEMORE
- 3-4-5**—General physics. *C* 5 hours. Professor WENDELL, Dr. WEBB, Dr. MORSE, Mr. FARWELL, Dr. WEINRICH, Mr. SEVERINGHAUS, Dr. STIFLER and Mr. BRAININ
- 6**—Mechanics and wave motion. *C* 6 hours. Professor WENDELL, Dr. WEINRICH and Mr. FARWELL
- 11**—Elementary mechanics. *C* 3 hours. Dr. WEBB
- 41, 42**—Laboratory physics. *L* 2, 4, or 6 hours, in connection with 11. Mr. FARWELL.
- 13**—Electricity and magnetism. *C* 4 hours. Professor WENDELL and Mr. FARWELL
- 14**—Light and radiation. *C* 3 hours. Dr. MORSE
- 15-16**—Analytical mechanics. 3 hours. Professor PEGRAM
- 43-44**—Physical laboratory. *L* 3 hours. Professor WENDELL, Dr. MORSE, Dr. WEINRICH, Mr. SEVERINGHAUS, Dr. STIFLER, Mr. SCOTT, Mr. BRAININ, Mr. MURPHY and Mr. ULREY
- 61, 62**—Laboratory physics. *L* 2, 4, or 6 hours, in connection with 13 or 14. Mr. FARWELL
- 71-72**—Laboratory physics. *L* 4 or 6 hours. Professor TROWBRIDGE
- 55**—Physical measurements. 2 hours. Dr. STIFLER
- 102**—Mechanics: continuation of mechanics 1. 5 hours. Professors BURNSIDE and SCHROEDER, Dr. WEBB, and Mr. WHITTEMORE
- 103-104**—Analytical mechanics. Full course each half-year. 3 hours. Professor PEGRAM
- 105**—Thermodynamics. 2 hours. Professors WILLS and PEGRAM

*Absent on leave, 1913-1914.

107-108—Theory of electricity and magnetism. 2 hours first half-year, 3 hours second half-year. Professor WILLS

109-110—Theory of alternating current machines and theory of electrical currents. 4 hours first half-year, 3 hours second half-year. Professor PUPIN

154—Sound and theory of oscillations. Half course. Professor DAVIS

155—Electricity and magnetism. 3 hours. Professor DAVIS

160—Kinetic theory of gases. Half course. Dr. DAY

151-152—Advanced laboratory course. Half to two full courses each half-year. Professor TROWBRIDGE

201—Vector analysis and mathematical introduction. Full course and a half. Professor WILLS

203-204—Partial differential equations of physics. Full course each half-year. Dr. WEBB

206—Mechanics. Full course and a half. Professor WILLS

208—Theory of elasticity. Half course. Professor WILLS

213—Thermodynamics and kinetic theory of gases. Full course. Professor PEGRAM

212—Theory of sound. Full course. Professor PEGRAM

215-216—Electricity and magnetism. Full course each half-year. Professor PUPIN

235-236—Thermodynamics applied to chemistry. Half course first half-year, full course second half-year. Professor MALTBY

255—Discharge of electricity through gases. Half course. Professor DAVIS

258—Phenomena of radio-activity. Half course. Professor PEGRAM

Journal Club—The Journal Club of the Department meets every week for the discussion of the current literature of physics, and for reports of special investigations.

Barnard College

1-2—Elementary physics. C 3 hours, L 2 hours. Professor MALTBY and Miss BRANT

11-12—General physics. C 3 hours, L 2 hours. Miss LANGFORD and Miss BRANT

31—Mechanics. C 3 hours, L 2 or 4 hours. Miss LANGFORD

32—Heat and properties of matter. C 3 hours, L 2 or 4 hours. Miss LANGFORD

34—Light. C 3 hours, L 2 or 4 hours. Miss LANGFORD

138—Theory of electricity. 3 hours. Professor MALTBY

Teachers College

Physical science **101-102**—History of physical science. Half course each half-year. Professor WOODHULL

See other courses under Education

- Summer** **si**—Mechanics: statics. 6 points. MR. WHITTEMORE
si02a—Statics. 3 points. Professors BURNSIDE and SCHROEDER
si02b—Dynamics. 3 points. Professors BURNSIDE and SCHROEDER
sA1—Mechanics, wave-motion and sound. 3 points. Professor HULL, Dr. STIFLER, Mr. BLANCHARD and Mr. COLEMAN
sA2—Heat, light and electricity. 3 points. Professor HULL, Dr. STIFLER, Mr. BLANCHARD and Mr. COLEMAN
s3—Elementary mechanics, wave-motion, and hydrostatics. 6 points. Mr. FARWELL
s4—Heat and light. 6 points. Dr. MORSE
s33a, or **b**—Intermediate laboratory course in general physics. 1 or 2 points. Mr. SEVERINGHAUS
s43—Laboratory course in general physics. 3 points. Mr. SEVERINGHAUS
si07—Principles and experiments. 3 points. Half course. Professor HULL
s223—Recent advances in electrical theory. Half course. Professor WEBSTER
s224—Partial differential equations of physics. Half course. Professor WEBSTER
s258—Phenomena of radio-activity. Half course. Professor PEGRAM
s272—Research course. Professor PEGRAM

- Extension** **e1**—Statics. 2 points. Mr. WHITTEMORE
eA1-A2—Elementary course in general physics. 4 points. Mr. FARWELL
 Optometry **1-2**—Theoretical optics. *C* 3 hours, *L* 2 hours. Dr. STIFLER
 Optometry **11**—Physiological optics. 3 hours. Dr. POFFENBERGER
 Optometry **12**—Physiological optics. 1 hour. Dr. POFFENBERGER
 Optometry **9-10**—Theoretical optics. *C* 3 hours, *L* 2 hours. Dr. STIFLER

Equipment The laboratories and lecture-rooms of the Department of Physics are in Fayerweather Hall. They are supplied with the usual general equipment of a physical laboratory.

The laboratories used for research work have been named by the Trustees

the "Phoenix Physical Laboratories," in memory of Mr. Stephen Whitney Phoenix, who bequeathed to the University an endowment for research in physics and chemistry.

Under the direction of the professor of electro-mechanics, laboratories have been equipped in Philosophy Hall from the Marcellus Hartley fund for research in the subjects of electricity and magnetism. The laboratories afford unusual opportunities for students desiring to specialize in these subjects.

A gift from Mr. Edward Dean Adams at the beginning of the present year provides a sum to procure apparatus for what is to be known as the Ernest Kempton Adams Precision Laboratory. As rapidly as the apparatus can be purchased and installed this laboratory will be equipped with instruments of the best design and highest precision for measurements in mechanics, heat, light, radio-activity, and those branches of electricity not already provided for by the Marcellus Hartley fund.

The physics laboratories at Barnard College occupy the second floor and a part of the basement of Fiske Hall. They are well equipped for quantitative experimental work in the courses offered.

The physics laboratories and lecture-room of Teachers College are especially well equipped for illustrating the teaching of physics in secondary and normal schools.

PHYSIOLOGY

Professor: LEE (*Executive Officer*)

Associate Professor: BURTON-OPITZ

Assistant Professor: PIKE

Associates: EMERSON and WILLIAMS (H. B.)

Instructors: GORDON, PARDEE, SCOTT, SHEARER and TERRIBERRY

All courses except 1-2 and 106-107 are open to women

See introductory paragraphs, page 60

1-2—Elementary physiology. C 1 hour, L 2 hours. Professor PIKE and Mr. SCOTT

106-107—Human physiology. C 5 hours, D 1 hour, L 3 hours. Professors BURTON-OPITZ and Drs. GORDON, PARDEE, SHEARER, TERRIBERRY and WILLIAMS (H. B.)

201-202—General physiology. C 1 hour, L 5 hours. Professors LEE and PIKE and Mr. SCOTT

203-204—Special physiology. C 1 hour, L 5 hours. Professors BURTON-OPITZ and PIKE, Dr. WILLIAMS (H. B.) and Mr. SCOTT

205-206—Problems of evolution from the standpoint of physiology. C 1 hour. Professor PIKE

207—Clinical physiology. C and D 3 hours. Professors BURTON-OPITZ and PIKE and Drs. EMERSON and WILLIAMS (H. B.)

251-252—Research in physiology. Under the direction of the professors of physiology. The officers of the department

213—Experimental study of reflex actions and tropisms. (Schermerhorn Hall.) 1 hour, with demonstrations and opportunities for laboratory work. Professor MORGAN (T. H.)

151-152—General physiology. (Barnard College.) *C* 2 hours, *L* 4 hours. Professor OSBURN and Dr. GREGORY

Biology **1**—Elementary human anatomy and physiology. (Teachers College.) *C* 1 hour, *L* 2 hours. Miss STACKPOLE and Professor BIGELOW

Biology **3**—Introduction to applied biology. (Teachers College.) *C* 2 hours, *L* 4 hours. Miss STACKPOLE and Professor BIGELOW

Biology **53**—Applied biology, advanced course. (Teachers College.) *C* 2 hours, *L* 4 hours. Miss STACKPOLE and Professor BIGELOW

Physical Education **55-56**—Applied physiology. (Teachers College.) *C* 1 hour, *L* 2 hours. Mr. WILLIAMS (J. F.)

Summer **s101**—Elementary physiology. *C* 5 hours, *L* 4 hours. 2 points. Mr. SCOTT

s102—Advanced physiology. *C* 5 hours, *L* 4 hours. 2 points. Professor PIKE

Physical Education **s55**—Physiology of exercise. 2 points. Mr. WILLIAMS (J. F.)

Research The laboratories are open for research, under the direction of their officers, to advanced workers.

Journal Club A journal club, composed of the members of the staff and graduate students, holds weekly meetings for the discussion of current literature and special investigations.

Equipment The main equipment of the Department of Physiology is at the College of Physicians and Surgeons. It comprises one large laboratory, which is provided with special apparatus for teaching purposes; one large and four small laboratories for research; several private rooms for the use of the officers of the department; the Swift Physiological Cabinet, containing a specially endowed and very full collection of apparatus of precision, mainly for research; a library containing complete sets of all of the physiological journals, monographs and other books, and many reprints of special articles; two dark-rooms for optical and photographic work, and an outfit of machines and tools for working in wood and metal. Skilled mechanics give their entire time to the design, manufacture, and repair of apparatus. The laboratories are connected by wires with the Vanderbilt Clinic and the Roosevelt Hospital so that the string galvanometers of the department are available for making electrocardiographic records from patients. In Schermerhorn Hall at Morningside Heights the department has the use of a laboratory equipped for the instruction of undergraduates. At

Barnard College, the course in general physiology is given in the zoölogical laboratory and under the auspices of the department of zoölogy. At Teachers College, the courses in elementary human physiology, introduction to applied biology, and applied biology, are given under the auspices of the department of biology; and that in applied physiology under the auspices of the department of physical education. Course 213 is given in the zoölogical laboratory, under the auspices of the department of zoölogy.

POLITICAL ECONOMY AND FINANCE (see page 91)

POLITICAL PHILOSOPHY (see page 118)

POLITICS (see page 126)

PRACTICE OF MEDICINE

Professor: T. C. JANEWAY (*Executive Officer*)

Professors of Clinical Medicine: BRILL, DRAPER, EVANS, HOLLIS, HUBER, JACKSON (F. W.), JAMES (W. B.), KAUFMANN, LIBMAN, LOCKWOOD, MILLER, NORRIE, THACHER, and STADTMULLER

Associate Professor: LONGCOPE

Assistant Professors of Clinical Medicine: BOVAIRD, CAMAC, FRISSELL, HART, POTTER, TUTTLE

Associates: EMERSON, HERRICK, MASON

Associates in Clinical Medicine: CARTER, SUMNER, SWIFT, and WILLIAMS (L. R.)

Instructors: JAMES, STRONG, MOSENTHAL, and THACHER (H. C.)

Instructors in Clinical Medicine: CECIL, DRAPER, ERDWURM, HENSEL, SCHWERTFEGER, SHEARER, SNYDER, SWANN, and WOODRUFF

Assistants: NEERGAARD

Assistants in Clinical Medicine: BARRETT

Chiefs of Clinic: HERRICK and MASON

Clinical Assistants: CLASS, DETWEILER, EPSTEIN, FLEMING, GLASGOW, FRIEDMAN, FREIDSON, GOLDFARB, HORSFORD, HENDERSON, HUMPHREYS, JACOBUS, JAMES, KENT, KESSEL, MOSENTHAL, MISLIG, NEERGAARD, PASCALE, QUEL, RAINSFORD, STRONG, THACHER, VOGELER, ZELAYA, WEINSTEIN, WIENER and WEST

See introductory paragraphs, page 60

Courses 226, 228, 230, 237-238, and 251-252 are open to graduates in medicine.

102—Elementary medical clinic. 2 hours. Professor JANEWAY and Dr. EMERSON

104—Physical diagnosis. 2 hours. Drs. DRAPER, EMERSON, JAMES, NEERGAARD, STRONG, and THACHER

106—Clinical pathology: Systematic instruction in the various chemical, microscopical, and bacteriological methods of diagnosis. 4 hours. Professor VOGEL and Drs. CUSSLER, GEYELIN, HOPKINS, JESSUP, and SWANN

201—Clinical lecture on general medicine. 1½ hours. Professor JANEWAY

202—Clinical lecture on general medicine. 1½ hours. Professor LONGCOPE

203—Clinical lecture on general medicine. 1 hour. Professor JANEWAY

204—Clinical lecture on general medicine. 1 hour. Professor LONGCOPE

205-206—Clinical lecture on general medicine. 1½ hour. Professor EVANS

207-208—Recitations in general medicine. 2 hours. Dr. HERRICK

209—Physical and medical diagnosis. 4 hours. Drs. BARRETT, CARTER, DRAPER, ERDWURM, HERRICK, JAMES, MASON, NEERGAARD, SHEARER, SWANN, SNYDER, STRONG, and THACHER

211-212—Advanced medical clinic. 1½ hours. Professors JANEWAY, JAMES, and LONGCOPE

213-214—Clinical and pathological conference. 2 hours. Professors JANEWAY, LONGCOPE; and MACCALLUM and Drs. PAPPENHEIMER and LAMB

215-216—Clinical clerkships in medicine. 6 mornings and 2 afternoons

Presbyterian Hospital: Professors JANEWAY, JAMES, THACHER, LONGCOPE, BOVAIRD, and HART, and Drs. TUTTLE, CARTER, MOSENTHAL, SWANN, DRAPER, and CECIL

St. Luke's Hospital: Professors LAMBERT, HOLLIS, FRISSELL, PATTERSON, and VOGEL, and Dr. HOPKINS

Bellevue Hospital: Professors LOCKWOOD, DRAPER, NORRIE, and MILLER, and Dr. WOODRUFF

German Hospital: Professors KAUFMAN, STADTMÜLLER, and DENIG, and Drs. SCHWERDTFEGER and HENSEL

Mt. Sinai Hospital: Professors BRILL and LIBMAN

217-218—Clinical pathology. Professor VOGEL and Drs. CUSSLER and CARLUCCI

204—Clinical lecture on general medicine. 1 hour. Professor LONGCOPE

220—Medical diagnosis. 2 hours; prerequisite course 209. Dr. HERRICK

222—Medical diagnosis. 2 hours; prerequisite course 209. Dr. MASON

224—Medical diagnosis. 2 hours; prerequisite course 209. Dr. WILLIAMS

226—Diseases of metabolism. 2 hours; prerequisite courses 201, 203, and 209. Dr. MOSENTHAL

228—Tuberculosis. 4 hours; prerequisite course 209. Professor MILLER

229—Recitations in general medicine. 1 hour. Dr. MOSENTHAL

230—Clinical lecture on general medicine. 1 hour. Professors JACKSON and EVANS

231-232—Medical case reporting with collateral reading and preparation of a case report to be read at a seminar. 2 hours. Professors POTTER and CAMAC

233-234—Clinical instruction. 2 hours. Dr. SWIFT

235—Pathology of certain common diseases. 3 hours. Professors LONGCOPE and MACCALLUM

236—Clinical and experimental study of acute infectious diseases. 2 hours. Professor LONGCOPE and Dr. CECIL

237-238—Graphic study of cardiac disease. 2 hours. Professor HART

251-252—Research in medicine

s106—Clinical pathology. 10 hours. Equivalent to course 106 and may be substituted for it. Professor VOGEL

s209—Physical and medical diagnosis. At Bellevue Hospital. 10 hours. Equivalent to course 209 and may be substituted for it. Professor JAMES A. MILLER

The equipment of the department of the practice of medicine comprises **Equipment** the following: The laboratory of clinical pathology, on the fourth floor of the north building of the College, is completely equipped for the routine instruction of students, and clinical research by physical, chemical, hematological, bacteriological, and serological methods. Undergraduate instruction is carried on in the laboratory on the fifth floor of the north building of the College. The laboratory of the Vanderbilt Clinic is equipped for the routine investigation of patients and instruction of students in clinical pathology. Facilities for chemical, bacteriological, and serological investigations are provided in the clinical laboratories of the Presbyterian Hospital under the charge of the professor and associate professor of the practice of medicine, and in the chemical laboratory of St. Luke's Hospital under the charge of the assistant professor of clinical pathology.

The Edward G. Janeway Memorial Library of about 2500 bound volumes and 3000 pamphlets, situated in the Vanderbilt Clinic, contains complete sets of all the important medical journals, both American and

foreign, and many important monographs and reference works. It is open throughout the day to the staff and students of the department.

PSYCHOLOGY (see page 147)

PUBLIC LAW AND JURISPRUDENCE (see page 125)

RELIGION

In addition to courses offered in conjunction with the Union and General Theological Seminaries, the following courses in Religion are given in Columbia College.

See introductory paragraphs, page 60

1-2—Introduction to the study of the Bible. 3 hours. Chaplain KNOX

3-4—Fundamentals of Religion. 2 hours. Professors THOMAS C. HALL and WILLIAM ADAMS BROWN, of Union Theological Seminary.

RHETORIC AND ENGLISH COMPOSITION (see page 104)

ROMANCE LANGUAGES AND LITERATURES

Professors: COHN (*Executive Officer*), TODD and WEEKS

Associate Professor: GERIG

Assistant Professors: FONTAINE, JORDAN, LIVINGSTON and LOISEAUX

Instructors: ALEXANDER, BIGONGIARI, FORTIER, IMBERT, and MULLER

Lecturer: DE BACOURT

Visiting Lecturer: BOURQUIN

See introductory paragraphs, page 60

For courses under 100 there is a special numbering under French, Italian, and Spanish, respectively. Courses above 100 are all numbered under the general heading Romance Languages and Literatures.

French A1-A2—Elementary course. 3 hours. Professor COHN and Drs. MULLER and ALEXANDER (Columbia), and Dr. MULLER and Mr. FORTIER (Barnard)

B1-B2—Syntax reading, and composition. 3 hours. Professors COHN, FONTAINE and GERIG (Columbia), and Drs. MULLER and ALEXANDER (Barnard)

B4—Grammar, reading, and composition. 5 hours, second half-year. Professor COHN and Dr. ALEXANDER

C1-C2—Elementary course for graduate students. 2 hours. Professor JORDAN

J1-J2—Reading of French newspapers. 3 hours. Mr. DE BACOURT (Journalism)

1-2—General introduction to the study of French literature. 3 hours. Professors COHN and FONTAINE and Mr. FORTIER (Columbia), Drs. MULLER and ALEXANDER and Professor GERIG (Barnard)

3—Composition and conversation based on the history of France. 3 hours. Professor JORDAN (Columbia)

3-4—Modern prose writers, especially the historians. 3 hours. Professor JORDAN (Barnard)

4—Composition and conversation based upon scientific French. 3 hours. Professor JORDAN (Columbia)

5-6—History of French literature in the seventeenth century. 3 hours. Professor LOISEAUX (Columbia), Professor WEEKS (Barnard)

9-10—Composition. 1 hour. Professor JORDAN (Columbia), Professor JORDAN (Barnard)

11-12—Advanced composition and conversation. 1 hour. Professor JORDAN (Columbia), Professor JORDAN (Barnard)

13-14—French literature, especially prose, after the classical period. 3 hours. Professor FONTAINE (Columbia)

15-16—French literature, especially poetry, after the classical period. 3 hours. Mr. FORTIER (Columbia)

17-18—History of the French drama. 3 hours. Professor WEEKS (Barnard)

21-22—Advanced grammar and composition. 3 hours. Professors COHN and FONTAINE (Teachers College)

101—History of French literature in the seventeenth century down to 1660. 3 hours. Professors WEEKS and LOISEAUX

102—History of French literature in the seventeenth century after 1660. 3 hours. Professors LOISEAUX and WEEKS

103—History of French literature in the eighteenth century down to 1750. 3 hours. Professor LOISEAUX

104—History of French literature in the eighteenth century after 1750. 3 hours. Professor LOISEAUX

105—History of French literature in the nineteenth century down to 1852. 3 hours. Professor WEEKS

106—History of French literature in the nineteenth century after 1852. 3 hours. Professor WEEKS

111-112—History of French literature of the sixteenth century. 2 hours. Professor GERIG

113-114—Old French. 2 hours. Professor TODD

121-122—Methods of teaching French in secondary schools. Professor COHN. (Identical with Education 165-166)

205-206—Special topics in seventeenth-century French literature. 2 hours. Professor COHN

[207-208—Special topics in eighteenth-century French literature. 2 hours. Professor COHN]

209-210—Special topics in sixteenth-century literature. 2 hours. Professor GERIG

[211-212—Special topics in nineteenth-century literature. 2 hours. Professor COHN]

221-222—Le drame en France au XVIII^e siècle. 2 hours. Mr. BOURQUIN

223-224—Explication d'auteurs français. 1 hour. Mr. BOURQUIN
Education 165-166—Methods of teaching French in secondary schools. 2 hours. Professor COHN (Teachers College)

301-302—Seminar—French romanticism. I. The origins. 2 hours. Professor COHN

Italian 1-2—General introduction to Italian language and literature. 3 hours. Mr. BIGONGIARI and Professor LIVINGSTON

3-4—Composition and outside reading. 3 hours. Professor LIVINGSTON and Mr. BIGONGIARI

5-6—Typical movements in Italian literature from the sixteenth to the nineteenth century. 3 hours. Professor LIVINGSTON and Mr. BIGONGIARI

131-132—The *Divina Commedia* of Dante. 3 hours. Mr. BIGONGIARI

133-134—History of Italian literature. 3 hours. Professor LIVINGSTON and Mr. BIGONGIARI

135-136—Intellectual movements in contemporary Italy. 2 hours. Professor LIVINGSTON and Mr. BIGONGIARI

137-138—Special topics in Italian literature. 2 hours. Professor LIVINGSTON

Spanish 1-2—Elementary course. 3 hours. Mr. IMBERT

3-4—General introduction to Spanish literature. 3 hours. Mr. IMBERT (Columbia), Professor LOISEAUX (Barnard)

[141-142—The novela of the golden age. 3 hours. Professor LOISEAUX]

143-144—The Spanish comedia. 3 hours. Professor LOISEAUX

Romance Philology 151-152—Introduction to Romance philology. 2 hours. Professor TODD

251-252—The oldest monuments of the French languages. 1 hour. Professor TODD

[253-254—Old French Dialects. 1 hour. Professor TODD]

[255-256—Critical constitution of texts. 1 hour. Professor TODD]

257-258—Old Provençal. 1 hour. Professor TODD

259-260—Oldest monuments of the Italian and Spanish languages. 1 hour. Professor LIVINGSTON

261-262—The evolution of Latin in Gaul in the pre-Romance period. 1 hour. Dr. MULLER

271-272—Portuguese. 1 hour. Professor TODD

273-274—Rumanian. 1 hour. Professor COHN

303-304—Seminar—Presentation and discussion of doctoral dissertation work. 1½ hours. Professor TODD

sA1—Elementary French. (Evening class.) 2 points. Mr. COHN-McMASTER **Summer French**

sA1—Elementary course. 2 points. Mr. COHN-McMASTER and Dr. ALEXANDER

sA2—Elementary reading and oral practice. 2 points. Professor JORDAN and Mr. FORTIER

sA3—Supplementary course. 2 points. Dr. MULLER and Mr. COHN-McMASTER

This course may be taken simultaneously with sA1 with the special permission of the instructor

sB1—Intermediate: first course. 2 points. Dr. ALEXANDER

sB2—Intermediate: second course. 2 points. Dr. MULLER

s1—General introduction to the study of French literature. I. 2 points. Professor YOUNG

s2—General introduction to the study of French literature. II. 2 points. Mr. FORTIER

s3—French conversation and composition. 2 points. Professor JORDAN

s5—History of French literature in the seventeenth century. First course. 2 points. Professor LOISEAUX

s6—History of French literature in the seventeenth century. Second course. 2 points. Professor YOUNG

s101—Lectures on French literature during the first half of the seventeenth century. Full course. Professor LOISEAUX

s102—Lectures on French literature during the second half of the seventeenth century. Full course. Professor YOUNG

s104—History of French literature in the second half of the eighteenth century. Full course. Professor LOISEAUX

s106—History of the French literary movement in the second half of the nineteenth century. Full course. Professor WEEKS

s113—Old French. First course. Full course. Professor GERIG

s1—Elementary: first course. 2 points. Professor LIVINGSTON

Italian

s2—Elementary: second course. 2 points. Mr. LIPARI

s3—General introduction to the study of Italian literature: first course. 2 points. Professor LIVINGSTON

s4—General introduction to the study of Italian literature: second course. 2 points. Mr. LIPARI

s1—Elementary I. 2 points. Mr. IMBERT

Spanish

s2—Elementary II. 2 points. Mr. IMBERT

s3—General introduction to Spanish literature. I. 2 points. Mr. IMBERT

s4—General introduction to Spanish literature. II. 2 points. Professor FITZ-GERALD

SI41—The drama. Full course. Professor FRIZ-GERALD

Romance Philology **SI51**—Introduction to Romance philology: first part. Full course. Professor GERIG

SI52—Introduction to romance philology: second course. Full course. Professor WEEKS

Extension French **eA1-A2**—Elementary course. 6 points. Dr. ALEXANDER and Mr. FORTIER (Also in Brooklyn, Newark, Jersey City and Paterson)

eA3-A4—Elementary course. I. 3 points. Mr. FARNSWORTH

eA5-A6—Elementary course. II. 3 points. Mr. FARNSWORTH

eA8—Elementary course. 6 points. Second half-year. Mr. IMBERT

eB1-B2—Intermediate course. 6 points. Mr. BIGONGIARI and Dr. ALEXANDER. (Also in Newark)

eB3-B4—Intermediate course—Grammar, reading and composition. 3 points. Mr. FARNSWORTH

e1-2—General introduction to the study of French literature. 6 points. Dr. MULLER

3-4e—Conversation and composition based upon the history of France. 6 points. Mr. FORTIER

e5-6—History of French literature in the seventeenth century. 6 points. Professor LOISEAUX

e101-102—History of French literature in the seventeenth century. Full course. Professor LOISEAUX

e103-104—History of French literature in the eighteenth century. Full course. Professor LOISEAUX

Italian **e1-2**—Elementary course. 6 points. Professor LIVINGSTON. (Also in Trenton)

e3-4—Advanced course. 6 points. Professor LIVINGSTON

Spanish **e1-2**—Elementary course. 6 points. Mr. HAYDEN. (Also in Brooklyn)

e3-4—Advanced course. 3 points. Professor GERIG

Courses in Spoken Language French **cX1-cX2**—Elementary course in colloquial French. Mr. DE MONTULÉ and Dr. MARIQUE

(This course is given in co-operation with the Alliance Française.)

cY1-cY2—Intermediate course in colloquial French. Mr. DE MONTULÉ and Dr. MARIQUE

(This course is given in co-operation with the Alliance Française.)

Italian **cX1-cX2**—Elementary oral practice and sight reading. Mr. RUSSO

Spanish **cX1-cX2**—Colloquial and written Spanish. Mr. MALÉCOT

The library of Columbia University is well supplied with French, Spanish, and Italian works, as well as with works upon Romance philology. Its list of periodicals is especially rich. The Library has also complete sets of the most important series and collections in the whole field of the Romance languages and literatures.

The library of the Romance Department, in Philosophy Hall, contains a large number of books of reference. A special privilege enjoyed by the Department is that of using the library of the Hispanic Society of America.

The Romance Club consists of the instructors and advanced students in the department. At its meetings, an account is given of the most important articles in recent periodicals, and new books are discussed.

**Romance
Club**

Elementary evening classes in French are conducted by the department of Extension Teaching in co-operation with the Alliance Française.

**Maison
Francaise
and Alliance
Francaise**

Two societies have been organized for the purpose of fostering the use of the French language among the members of the University, viz., the Société Française de l'Université Columbia, and the Société Française de Barnard College.

**French
Societies**

SHOPWORK

Offered by the School of Practical Arts of Teachers College

Assistant Professor: SLEFFEL

Instructors: CONSTANTINE and WALSH

- 1—Wood-turning and pattern-making. 4 half-days, first term only
- 2—Moulding and foundry practice. 2 half-days, second term
- 108—Section I—Machine work. 3 weeks in June, 9-12, 1-4 daily
- 108—Section II—Machine work. 3 weeks in September, 9-12, 1-4 daily
- 12—Forging. 4 half-days, second term
- 13-14—Machine work. 1 half-day throughout the year
- 15—Forging and foundry practice. 4 half-days, 1 term
- 16—Machine work. 3 half-days, second term
- 188—Pattern-making, forging, foundry practice, and machine work. 3 weeks in June, 9-12, 1-4 daily

SOCIAL ECONOMY (see page 91)

SOCIOLOGY AND STATISTICS (see page 92)

SURGERY

Professors: BREWER (*Executive Officer*), HAYDEN

Professors of Clinical Surgery: LYLE, MARTIN, DOWD, GERSTER,

HOTCHKISS, JOHNSON, KAMMERER, KILIANI, PECK and WALKER

Associate Professor: LAMBERT (A. V. S.)

Assistant Professors: CLARKE, DOWNES, MATHEWS

Associate in Clinical Surgery: BERG (A. A.), DARRACH

Instructors: AUCHINCLOSS, CONNELL, GREEN, KINGSLEY, MCCREERY, McWHORTER, RAMSDELL, VAUGHAN, YEOMANS, WHITING

Instructors in Clinical Surgery: COLLINS, DERBY, EISENBREY, FISCHER, HOOKER, McWILLIAMS, RUSSELL, St. JOHN, STETTEN, STILLMAN, VOSBURGH, and WHIPPLE

Assistants: DWIGHT and PHELPS

Clinical Assistants: BROWN, KINGSLEY, LEGGETT and YEOMANS

Clinical Assistants G.-U. Diseases: BLANCARD, BANCROFT, COWAN, KOHN, CARNEY, GRAHAM, FOWLER and BELCHER

Dental Surgeons: CAIN, DUNNING, FISHER, LaRoche, REMY, SHIELDS, and STERN

See introductory paragraphs, page 60

104—Recitations, demonstrations and clinic in surgical pathology. 4 hours. Dr. CLARKE

201-202—Surgical pathology and general regional surgery. 2 hours. Professors BREWER, LAMBERT, PECK, and MARTIN and Drs. POOL and DARRACH

203-204—Clinic in general surgery. 2 hours. Professors BREWER and PECK

205-206—Recitations in general and regional surgery. 2 hours. Drs. CONNELL and MATHEWS

207—Minor surgery and bandaging. 4 hours. Drs. STILLMAN, AUCHINCLOSS, and VAUGHAN

209-210—Clinical clerkships in surgery. 6 mornings and 4 afternoons
Presbyterian Hospital: Professor LAMBERT and Drs. WHIPPLE and St. JOHN

St. Luke's Hospital: Professors MARTIN, LYLE, DOWNES, and MATHEWS, and Drs. EISENBREY and DERBY

German Hospital: Professors KILIANI and KAMMERER and Drs. FISHER and STETTEN

Mt. Sinai Hospital: Professor GERSTER and Dr. A. A. BERG

211-212—Clinic in general surgery. At the Roosevelt and Presbyterian Hospitals; 2 hours; seven-eighths of fourth year. Professors BREWER and LAMBERT

213-214—Practical instruction in surgical pathology. 2 hours. Drs. AUCHINCLOSS and EISENBREY

216—Demonstrations; anatomy of fractures. 1 hour. Dr. DWIGHT

217-218—Clinic in general surgery. 2 hours. Professor BREWER

219-220—Operative surgery on the cadaver. 6 hours. Drs. DARRACH, GREEN, and RAMSDELL

221-222—Practical instruction in surgical technic. 4 hours. Professor CLARKE and Assistants

223-224—Principles of surgery. 2 hours. Professor CLARKE and assistants

225-226—Practical instruction. 2 hours. Professor DOWD

227-228—Fractures. 2 hours. Professor WALKER

229-230—Practical instruction in surgery. 2 hours. Professor HOTCHKISS

THERAPEUTICS

Professor of Applied Therapeutics: LAMBERT (*Executive Officer*)

Associate Professor: WILLIAMS (W. R.)

Assistant Professors: LIEB and PATTERSON

Associate: BASTEDO

Instructors: CLASS, FREEMAN, GOODWIN, HABERMAN, HALE, and SCHULMAN

Assistants: BOYD and HUTTON

Clinical Assistants in Applied Therapeutics: ADAMS, BECK (B. J.), BECK (S.), FUHRMAN, HARRIS, HUMPHREYS, JANVRIN

See introductory paragraphs, page 60

Courses 211-212, 213-214, and 215 are open to candidates for the degree of A.M. or Ph.D. Course 211-212 is open to graduates in medicine

101-102—Experimental pharmacology. Lectures 1 hour; recitations 2 hours; laboratory work 4 hours. Professor LIEB and Drs. FREEMAN and GOODWIN

201-202—Principles of pharmacology and therapeutics. 1 hour. Professors WILLIAMS and PATTERSON and Dr. BASTEDO

204—Recitations on therapeutics. 2 hours. Dr. BASTEDO

205—Conferences on applied therapeutics. 1 hour. Professor LAMBERT

207—Lectures bearing upon the practical work of examining for life insurance. 3 lectures. Dr. ROGERS

209-210—Clinical instruction in therapeutics. 9 hours. Professor LAMBERT and Drs. HALE, SCHULMAN, CLASS, and CUSSLER

211-212—Psychopathology and psychotherapy, inclusive of the psychopathology, psychotherapy, and mental examination of the psychopathic child. 2 hours. Dr. HABERMAN

213-214—General pharmacology. Lectures 1 hour; laboratory work 6 hours. Professor LIEB and Dr. FREEMAN

215—Biological standardization of drugs. 7 hours. Professor LIEB

251-252—Research in pharmacology. Professor LIEB and Dr. FREEMAN

A journal club, composed of the members of the staff and graduates.

ZOOLOGY

Professors: BIGELOW, CALKINS, CRAMPTON, DEAN (B.), MORGAN (T. H.), OSBORN and WILSON (*Executive Officer*)

Assistant Professors: MCGREGOR and OSBURN

Associate: GREGORY (W. K.)

Instructors: DEDERER and GREGORY (L. H.)

Assistants: PACKARD, GOODRICH and MULLER

Of the following courses, 1-2, 3-4 and 101-102 are given separately at Barnard College, 5, 6, 53-54 and 151-152 only at Barnard.

For courses given at Teachers College see the current *Announcement of Teachers College*.

See introductory paragraphs, page 60

1-2—Elementary biology, zoölogy, general principles of biology. Prerequisite, Science A or elementary chemistry or physics. C 2 hours, L 4 hours. Professors CALKINS, MCGREGOR, and in Barnard, Professors CRAMPTON, OSBURN, Miss DEDERER and Dr. L. H. GREGORY

(Courses 3-4 may be taken with advantage with 1-2 to form a more comprehensive course. They may be taken only in connection with or subsequent to 1-2)

3—Elementary histology. C 1 hour, L 2 hours. Dr. PACKARD (Columbia College), Miss DEDERER (Barnard College)

4—Elementary embryology. C 1 hour, L 2 hours. Professor MORGAN (Columbia College), Professor OSBURN (Barnard College)

5—General biology. C 1 hour, L 2 hours. Professor CRAMPTON (Barnard)

6—Experimental biology. C 1 hour, L 2 hours. Professor CRAMPTON (Barnard)

53-54—Practical zoölogy and embryology. 2 points. Miss DEDERER (Barnard)

91-92—General zoölogy (to follow 1-2). C 2 hours, L 6 hours. Professor MCGREGOR

94—Embryology of vertebrates. C 1 hour, L 2 hours. Professor MCGREGOR. Prerequisite, 1-4

101-102—General zoölogy. C 3 hours, L 6 hours, and assigned work. Professors MCGREGOR, and in Barnard, Professors CRAMPTON, OSBORN, Dr. L. H. GREGORY, and Miss DEDERER. 2 full courses

110—The parasitic protozoa. C 1 hour, L 5 hours. Professor CALKINS. Full course

113—Experimental study of reflex actions and tropisms. 1 hour, with demonstrations and opportunities for laboratory work. Professor MORGAN. Full course

114—Experimental study of instincts. 1 hour. Professor MORGAN. Full course

151-152—General physiology (for women). *C* 2 hours, *L* 4 hours. Professor OSBURN and Dr. L. H. GREGORY. 2 full courses

201—Topics in invertebrate zoölogy. Two days. Professor WILSON. Double course

203-204—Mammals, living and fossil. Lectures and laboratory course 6 hours (one day). Dr. W. K. GREGORY. The latter part of this course is given in the American Museum of Natural History. 2 full courses

206—Fishes living and fossil. Professor DEAN. Full course

208-209—Comparative embryology. One day. Professors DEAN and CALKINS. 2 full courses

215-216—Experimental zoölogy. 1 hour with laboratory work on special problems. Professor MORGAN. 2 full courses

217—Experimental study of regeneration. 1 hour. Professor MORGAN. Full course

218—Experimental embryology, parallel to **220**. 1 hour. Professor MORGAN. Full course

220—Cellular embryology. 1 hour. Professor WILSON. Full course

221-222—Protozoölogy. *C* 1 hour, *L* 5 hours. Professor CALKINS. 2 full courses

223-224—Evolution of the vertebrates. One day. Dr. W. K. GREGORY. 2 full courses

225-226—Cellular biology—General structure and functions of the cell. *C* 1 hour, *L* 5 hours. Professor WILSON. 2 full courses

227-228—Special research

JOURNAL CLUB—Reports and discussions of recent literature by members of the staff, graduate students, and others. 1 hour a week throughout the year. Under direction of the staff

LECTURES—A course of lectures on general topics is given from time to time by members of the staff and eminent specialists from other institutions. These lectures form the basis of the Columbia Biological Series.

51—Elementary biology and zoölogy. 4 points. Professor MCGREGOR **Summer**

The zoölogical laboratories on the upper floor of Schermerhorn comprise **Equipment** a large general undergraduate laboratory, graduate laboratories, and rooms for private research, besides special rooms for supplies, aquaria, and preparation. There are also a commodious lecture-room and a library. The laboratories are well equipped with optical instruments, microtomes, and other apparatus for advanced work. The teaching collections include a series of the Mediterranean and American marine types, and the injected vertebrate series of Fric and Muller, a set of standard and specially prepared charts and wax models, a variety of living animals and plants contained in fresh-water and marine aquaria.

The departmental library embraces sets of the standard biological works

and includes the journals and a rapidly increasing collection of special monographs. A fund is available for the purchase of literature needed in connection with the special researches of students.

Important adjuncts to zoölogical work are offered by the American Museum of Natural History, the Bronx Zoölogical Garden, the New York Aquarium, and by the marine biological laboratories to which the University contributes support. Several investigators' tables are held at the Wood's Hole Laboratory, and the John D. Jones scholarship is available at the Cold Spring Harbor laboratory. A table at the Naples Zoölogical Station is also supported by the University.

UNDERGRADUATE ENTRANCE REQUIREMENTS

Professors JONES, *Chairman*, BONSER, BREWSTER, COLE, MCCREA, COMMITTEE
MCGREGOR (J. H.), MAYER, NOYES, ODELL, RUSBY, SACHS, SHERMAN,
SLICHTER, UPTON, VAN HOOK

There are no examinations for admission to the Schools of Law, Medicine, **General**
Political Science, Philosophy, Pure Science, Fine Arts (courses leading **Statement**
to degrees), the School of Education or to the Schools of Mines, Engineering and Chemistry. For the requirements for admission to these departments, see the separate announcements of the Schools and Faculties concerned.

Except for reasons of weight, candidates for admission to the Freshman class in Columbia College or Barnard College must be at least fifteen **Examina-**
years of age at the time of matriculation and correspondingly older for **tions and**
admission to advanced standing; and for admission to the Schools of **Records**
Architecture, Music, and Journalism, at least eighteen years of age.

Every candidate for admission is required to take an examination in each subject offered for admission. In passing upon the results of these examinations the detailed school record of the candidate is taken into account and given great weight.

The examinations may be any one of the three following means, or any approved combination thereof:

1. By the examinations of the College Entrance Examination Board.—These examinations are held annually in June, in 1913 beginning in June at Columbia University and at about one hundred and fifty other educational centres in the United States and Europe. A complete list of the places and times of such examinations, together with the regulations governing them, is published about March 1 annually and may be obtained from the Secretary of the College Entrance Examination Board, Post Office Sub-Station 84, New York City.

2. By the examinations conducted by the Columbia University Committee on Undergraduate Admissions.—These examinations are held in September and January of each year (beginning on September 15, 1914, and January 12, 1915). The September examinations are held only at the University.

3. By the examinations of the State Examination Board of the New York State Education Department.—These examinations are held in January and June at more than six hundred high schools and other insti-

tutions throughout the State of New York, but, save in exceptional circumstances, are open only to students in those schools. Full information regarding the regulations governing them may be obtained by application to the New York State Education Department, Albany, New York.

A copy of the time-scheme of the examinations held by the College Entrance Examination Board in June, and by Columbia University in September and January, together with information as to the proper method of filing application blanks for these examinations and the school records which should accompany them, the payment of fees, the division of examinations, and also detailed definitions of the requirements in each admission subject, is given in the *Bulletin of Entrance Examinations and Admission* which may be had upon application to the Secretary of the University.

All persons taking the January examinations will receive due credit for the results of the examinations. Students may be admitted, at the beginning of the second half-year, to Columbia College and Barnard College.

Candidates for admission to the School of Practical Arts may be admitted on the certificates of approved secondary schools. For full information see the separately printed announcement.

Application Every candidate for examination is required to file an application.

For the examinations in June, 1914, the application must be filed with the Secretary of the College Entrance Examination Board. Applications for examination in the United States east of the Mississippi River must be filed on or before June 1. Application for examination elsewhere in the United States or in Canada must be filed on or before May 25. Applications for examination outside of the United States and Canada must be filed on or before May 11.

For the examinations in January and September, 1914, applications should reach the Registrar of Columbia University on or before January 5, and September 7.

Fee Each application for examination in June must be accompanied by a fee of \$5 for all candidates examined at points in the United States and Canada, and \$15 for all candidates examined at points outside of the United States and Canada.

Candidates who have paid an examination fee to Columbia University will be exempted from paying the matriculation or registration fee (page 46).

Every *initial* application for examination (except in the case of candidates for Barnard College) in January or September must be accompanied by a fee of \$10. Candidates who have not paid this \$10 fee but who send, with the application, the receipt issued by the Secretary of the College Entrance Examination Board for the June immediately preceding, may be admitted on payment of \$5 in addition.

Candidates who have complied with these regulations will be exempted from paying the matriculation or registration fee ordinarily paid when the student begins work in the University.

A single fee paid to the University will cover two consecutive series of examinations, namely, January and September, or September and January, provided that applications be filed in accordance with the regulations stated at the top of this page.

An application for a third series or for any other series not covered by the provisions just mentioned should be accompanied by a fee of \$5 or a receipt from the Secretary of the College Entrance Examination Board for the June immediately preceding.

If a late application is accepted either by the College Entrance Examination Board, or by the University, a second fee of \$5 must be paid.

The examination fee receipt should be carefully preserved. It must be presented by the candidate to the Supervisor in charge of the examinations which he attends as evidence that he is entitled to be admitted to the same. No candidate will be admitted to the January or September examinations upon the receipt of the Board, unless that receipt bears the certification of the Registrar of Columbia University that the candidate's application has been filed.

A candidate may present himself at any of the series of examinations scheduled above, and the results may be credited towards the fulfilment of the requirements for admission, subject to the following restrictions: **Credits**

1. A candidate in making application for examination must submit a statement from the principal of his school, or from his last instructor, indicating the extent and character of his preparation in each subject in which he applies for examination, and credit may be withheld when this requirement is not met.

2. The results of an examination may stand to the candidate's credit for twenty-nine months, but no longer.

3. A candidate may not present himself for examination more than four times, except by special consent of the Committee on Undergraduate Admissions.

4. The results of the examinations conducted by the New York State Examination Board can be credited only in so far as the subject matter of these examinations specifically covers the subjects, or lettered or numbered parts of subjects, which are accepted for admission to Columbia University. Candidates who have been granted the College Entrance Diploma issued by the New York State Education Department may be admitted to the undergraduate departments free of conditions if the directions given in the Columbia University *Bulletin of Entrance Examinations and Admission* have been observed. The diploma should be forwarded to the Secretary of the University together with the application for ad-

mission. The proper credentials for individual subjects will be accepted in so far as they correspond to the entrance requirements.

5. The reports of all examinations must be rendered to the Committee on Admissions in percentages. The Committee interprets these percentages as Passed (P), Conditioned (Q), or Failed (F). Credit towards admission is given only for such examinations as receive a grade of P.

Subjects for examination Columbia University recognizes the following examination subjects which may be offered for admission to one or more of the colleges and schools included in the University, each subject counting for a specific number of units as indicated in parentheses. The unit here represents the number of years at the rate of five periods a week, which will normally be required in the secondary school to prepare adequately for the college examination.

Columbia College: A.B. $14\frac{1}{2}$ units. *Prescribed*, $9\frac{1}{2}$ units—English (3); elementary mathematics ($2\frac{1}{2}$); elementary Latin (4). *Elective*, 5 units—of which not more than 4 from elementary French (2), elementary German (2), Italian (2), Spanish (2); nor more than 3 units from botany (1), chemistry (1), physics (1), physiography (1), shopwork (1), zoölogy (1); any of the following, except that to offer an advanced subject involves offering at the same time or earlier the corresponding elementary subject: elementary Greek (3), elementary history (2) or (1), drawing (1), music (1), intermediate French (1), intermediate German (1), advanced English (1), advanced Greek (1), advanced history (1), advanced Latin (1), advanced mathematics ($1\frac{1}{2}$ – $1\frac{1}{2}$).

B.S. $14\frac{1}{2}$ units. The same as for the A.B. excepting that chemistry (1), physics (1), and intermediate or advanced subjects (2) may be offered in place of elementary Latin (4); in which case elementary Latin (2, 3 or 4) becomes elective. *Candidates for the six-year course in Columbia College and the Schools of Mines, Engineering and Chemistry must include solid Geometry, Plane Trigonometry and intermediate French or intermediate German.*

Barnard College: A.B. $14\frac{1}{2}$ units. Same as Columbia College with the exception of shopwork, which is not an entrance subject for Barnard College.

B.S. $14\frac{1}{2}$ units. *Prescribed*, $9\frac{1}{2}$ units—English (3); elementary mathematics ($2\frac{1}{2}$); 2 units from botany (1), chemistry (1), physics (1), physiography (1), zoölogy (1), and intermediate or advanced subjects (2) may be offered in place of elementary Latin (4); in which case elementary Latin (2, 3 or 4) becomes elective. *Elective*, 5 units—as given under *Elective* Columbia College.

General two years' course $14\frac{1}{2}$ units. *Prescribed*, $5\frac{1}{2}$ units—English (3); mathematics ($2\frac{1}{2}$). *Elective*, 9 units—Ancient or modern foreign languages (4); history, foreign languages, mathematics or science (5).

Candidates for the course in Journalism must offer History (2), French or German or both (4) *or* French or German (2) and Latin (4) *or* French or German (3) and Latin (3). They are not required to offer mathematics.

School of Architecture: For certificate $14\frac{1}{2}$ units. *Prescribed*, $9\frac{1}{2}$ units—English (3), mathematics ($3\frac{1}{2}$), drawing (1), Elementary French (2). *Elective*, 5 units—Elementary German (2), elementary history (2) or (1), elementary Latin (2), physics (2), chemistry (1), Spanish (2).

School of Music: For the certificate in Music $9\frac{1}{2}$ units. (Beginning with 1915, $14\frac{1}{2}$.) *Prescribed*, 3 units—English (3). *Elective*, $6\frac{1}{2}$ units—Elementary French (2) or (1), elementary Latin (2), elementary mathematics ($2\frac{1}{2}$), physics (1), Italian (2), harmony (1), musical appreciation (1), musical performance (2), advanced history (1), advanced mathematics (1).

College of Pharmacy: B. S. in Phar. $14\frac{1}{2}$ units. *Prescribed*, 6 units.—English (3), elementary mathematics and advanced arithmetic (3). To offer an advanced subject involves offering either at the same time or earlier the corresponding elementary subject. English (3), elementary French (2), elementary German (2), elementary Greek (3), elementary history (2) or (1), elementary Latin (4) or (2), elementary mathematics ($2\frac{1}{2}$), music (1), (2), (3) or (4), physics (1), intermediate French (1), intermediate German (1), advanced Greek (1), advanced history (1), advanced Latin (1), advanced mathematics (1), botany (1), chemistry (1), drawing (1), physiography (1), shopwork (1), Spanish (2), zoölogy (1), Hebrew (2), bookkeeping (1) or (2).

School of Journalism: B. Litt. $14\frac{1}{2}$ units. *Prescribed*, 9 units—English (3), History (2), French, German or French and German (4) (or a combination of both or either with Latin (6)). *Elective*, $5\frac{1}{2}$ units—Elementary French (2), elementary German (2), Italian (2), Spanish (2), elementary Latin (2, 3 or 4), elementary mathematics (2 or $2\frac{1}{2}$), botany (1), chemistry (1), drawing (1), physics (1), physiography (1), shopwork (1), zoölogy (1), intermediate French (1), intermediate German (1), advanced English (1), advanced French (1), advanced German (1), advanced Greek (1), advanced history (1), advanced Latin (1), advanced mathematics (1).

School of Practical Arts: B.S. in Practical Arts, $14\frac{1}{2}$ units—*Prescribed*, 7 units—English (3); 2 units from algebra (1) or ($1\frac{1}{2}$), plane geometry (1), modern, commercial and higher arithmetic (1), biology (1), botany (1), chemistry (1), industrial and commercial geography (1), physics (1), physiology ($1\frac{1}{2}$), physiography (1), zoölogy (1); 2 units from elementary French (2), German (2), Greek (3), Latin (2) or (3), Italian (2), Spanish (2), elementary history ($1\frac{1}{2}$), (1), (2), (3), (4), industrial history (1), intermediate French (1), intermediate German (1), advanced English (1), advanced French (1), advanced German (1), Greek (1), history (1), Latin (1), mathematics ($1\frac{1}{2}$), (1) or ($1\frac{1}{2}$). *Electives*, $7\frac{1}{2}$ units—in addition

to further choices from the foregoing, and not more than 3 units in all from the following may be elected, drawing (1), household arts (1), (2) or (3), music (1) or (2), shopwork (1), (2) or (3).

Schedule The examinations at Columbia University will be held as follows:
 For men, in Earl Hall in January and September, and in the Gymnasium in June.
 For women, in Barnard College in January, June, and September.

January and September Candidates taking these examinations must report to the Supervisor, in the examination room, fifteen minutes in advance of the first examination which they are to attend.

Monday (January 12, September 14)

Morning: Mathematics *ai*, Mathematics *aii*. Math. *a* complete

Afternoon: History *b*, History *d*, Botany, Physics, Zoölogy

Tuesday (January 13, September 15)

Morning: Mathematics *c*, Mathematics *d*, Math. *cd*

Afternoon: History *a*, History *c*, German *a*

Wednesday (January 14, September 16)

Morning: Greek *g*, Latin *3*, Mathematics *b*

Afternoon: French *a*, German *b*, Greek *a*, German *bc*, Italian, Spanish

Thursday (January 15, September 17)

Morning: Latin *4*, Music *a*, Greek *f*

Afternoon: Latin *5*, Shopwork, Drawing, French *b*, French *bc*

Friday (January 16, September 18)

Morning: English *a*, Latin *6*

Afternoon: English *b*, Chemistry, Greek *c*, Music *b*, Physiography

Saturday (January 17, September 19)

Morning: Mathematics *f*, English Adv., Greek Adv., Greek *b*, Shopwork Lab.

Afternoon: History Adv., Latin Adv.

June *Monday (June 15)*

Morning: Mathematics *ai*, Mathematics *aii*

Afternoon: Botany, History *b*, History *d*, Physics, Zoölogy

Tuesday (June 16)

Morning: Mathematics *c*, Mathematics *d*

Afternoon: German *a*, History *a*, History *c*

Wednesday (June 17)

Morning: Latin *3*

Afternoon: French *a*, German *b*, Spanish

Thursday (June 18)

Morning: Latin *4*

Afternoon: French *b*, French *bc*, Latin *d*, Latin *5*

Friday (June 19).

Morning: English *a*, Latin *6*.

Afternoon: Drawing, English *b*, Greek *b*, Mathematics *b*.

Saturday (June 20)

Morning: Chemistry, Greek *a*, Greek *c*, Greek *h*, Music *b*, Physiology.

Afternoon: Greek *f*, Greek *g*, Mathematics *f*, Music *a*.

**Note-books,
etc.**

All work submitted must be duly certified to in ink by the teacher in the following form:

"I certify that this is a true and original record of work actually performed by.....while in attendance at.....during the year 19....."

Instructor in.....

Drawings should bear a similar certification, or in case of work not done under instruction should be accompanied by the candidate's own signed declaration.

All note-books unless otherwise specified should be submitted at the time for examination. Candidates desiring their return should apply to the Chairman of the Committee on Admissions.

English exercise books, submitted in lieu of examination, Advanced English essays, or Advanced History note-books, should be sent to the Secretary of the University at least two weeks before the examinations begin. Within ten days the candidate will be informed whether or not the work submitted has been accepted. English exercise books will *not* be returned to the writers. All note-books uncalled for one year from the date of submission will be destroyed.

ADMISSION TO ADVANCED AND SPECIAL STANDING

(See Faculty Statements, page 193, *et seq.*)

(Specimens of the question papers set by Columbia University are on file in the University Library or may be obtained from the Chairman of the Committee on Undergraduate Admissions upon application. The question papers set by the College Entrance Examination Board are published annually in book form by Ginn & Company, New York.)

Definitions

The following abridged statements are intended merely to indicate the general scope of the requirements. The official definition of each requirement is printed in full in the *Bulletin of Entrance Examinations and Admission*, and any person who intends to take the examinations himself or to prepare others for them should procure this Bulletin.

Arithmetic, Modern Commercial and Higher (counting one unit). *May be offered for entrance to the School of Practical Arts and the College of Pharmacy only.*

Review of the principles of arithmetic applied to the solution of

modern, commercial and industrial problems. Emphasis should be given to the principles of modern banking, domestic and foreign exchange, etc. Special emphasis should be given to the application of these topics to practical problems.

Biology (Counting one unit). *May be offered for entrance to the School of Practical Arts only.*

The course should include elementary work in Botany, Zoölogy and Physiology.

Botany¹ (One unit). (1) Structure and life history of 16 or more types of representative families of plants, 10 of them seed plants. (2) Elementary plant physiology. (3) Elementary natural history (ecology of plants). Requiring one year of laboratory and class-room instruction, for the course.

Chemistry¹ (One unit). Preparation and properties of the common elements and their important compounds.

Mastery of the more usual chemical terms and ability to make simple calculations and explanations of chemical processes. Preparation should include lectures and demonstrations, study of standard elementary text-books, and forty or more laboratory exercises.

Drawing¹ (One unit). The ability to sketch freehand with reasonable accuracy—(a) From dictation: Simple geometrical figures; (b) From the object: A vase, household utensil, or other familiar object; (c) From the copy: Enlarging or reducing simple pieces of machinery or architectural or decorative detail. (At least 20 freehand drawings must be submitted.)

English (Three units). (a) Reading and Practice (this part of the test may be fulfilled in whole or in part by an exercise book) (see page 179). A test of training in English composition. A list of the books prescribed for reading appears in the *Bulletin*. (b) Study and Practice. The subject-matter, form, and structure of certain specified works, and incidentally English grammar and English literary history. Prescribed for 1914 and 1915: *Macbeth*; *L'Allegro, Il Penseroso* and *Comus*: Burke on *Conciliation*, or both Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

English, Advanced (One unit). Candidates must have covered substantially the same ground as that included under English A1-A2 (see page 104). (1) English composition, presupposing the elements of rhetoric. (2) General history of English literature, and selected works (a list of which may be obtained from the Secretary of the

¹ A certified and indexed note-book must be submitted (see page 179).

CLAREMONT AVENUE

THE UNION
THEOLOGICAL SEMINARY122ND STREET121ST STREET120TH STREET119TH ST119TH ST118TH ST117TH ST115TH ST

MORRIS PARK WEST

AMSTERDAM AVENUE

BROADWAY

COLUMBIA UNIVERSITY
SUBWAY STATIONMILBANK
QUADRANGLE

THE GREEN

THE QUADRANGLE

116TH STREET114TH STREET

COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK

THIS PLAN DOES NOT INCLUDE THE COLLEGE OF PHARMACY
OR THE MEDICAL SCHOOL BUILDINGS

PRESENT BUILDINGS
 BLDGS IN COURSE OF CONSTRUCTION
 PROPOSED BUILDINGS
 SCALE
 METERS
 0 50 100 150 200

1. Horace Mann School
2. Thompson Memorial Bldg.
3. Milbank Memorial Chapel
4. Macy
5. Main Building (Teachers)
6. Household Arts
7. Peabody Greenhouse
8. Whittier
9. Fiske
10. Milbank
11. Brinckerhoff
12. Wilde Observatory
13. Class of 1882 Gates
14. Statue of the great God Pan
15. Mapes Gates
16. University
17. Milbank Quadrangle
18. Havemeyer
19. Schermerhorn

20. Avery
21. Engineering
22. Fayerweather
23. Earl
24. Library
25. St. Paul's Chapel
26. Mines
27. Lafayette Post Flag Staff
28. Class of 1881 Flag Staff
29. East
30. Philosophy
31. Brooks
32. Class of 1885 Sun Dial
33. Faculty Club
34. Statue of Alma Mater
35. Kent
36. Hamilton
37. Statue of Alexander Hamilton

38. Hartley
39. Livingston
40. South Field
41. Journalism
42. Fernald
43. Botany Greenhouse
44. President's House
45. Class of 1888 Gate
46. Class of 1886 Exedra
47. Deutsches Haus
48. Provost Carpenter
49. Dean Keppel
50. Chaplain Knox
51. Professor Morgan
52. Class of 1887 Well Head
53. Cancer Research
54. Proposed Greenhouse
55. Maison Francaise
56. Carnegie Endowment

University). Ten essays of at least 500 words each must also be submitted. (See page 179.)

French, Elementary (Two units). Accurate pronunciation and the ability to read at sight easy prose and to put into French simple English sentences. The rudiments of the grammar, involving all but the rare irregular verb forms and the simpler uses of conditional and subjunctive. The preparation should include, beside the mastery of a good elementary text-book, the reading of 300-600 pp. of easy French.

French, Intermediate (One unit). Additional reading, 400-600 pp. including dramatic works. Grammar completed. Further drill in composition.

French, Advanced (Counting one unit). *May be offered for Journalism and Practical Arts only.*

Additional reading of from 600 to 1000 pages of standard French, classical and modern, the writing of numerous short themes in French and the study of syntax.

Geography, Industrial and Commercial (Counting one unit). *May be offered for entrance to the School of Practical Arts only.*

One-third of this course should be devoted to the elements of physical geography, and commercial geography should be studied around countries as units. A note-book showing that map and atlas study has been carried on in connection with the text study must be submitted.

German, Elementary (Two units). Accurate pronunciation and the ability to read easy dialogue and narrative prose, and a working knowledge of grammar and composition adequate for the putting into German of simple English sentences based upon a familiar vocabulary. The preparation should include, beside the mastery of a good elementary text-book, the reading of 150-200 pp. of easy German.¹

German, Intermediate (One unit). Additional reading, 400 pp. of moderately difficult prose and poetry. Further drill in grammar and composition, with special reference to syntax.

German, Advanced (Counting one unit). *May be offered for Journalism and Practical Arts only.*

Additional reading of about 500 pages of good literature in prose and poetry, reference reading upon the lives and works of the great writers studied, the writing of numerous short themes in German upon assigned subjects, independent translation of English into German.

Greek, Elementary (Three units). (a) 1 and 2.—Attic grammar and elementary composition, based on *Anabasis I-II*. (b) *Anabasis*

¹ A certified and indexed note-book must be submitted (see page 179)

I-IV. (c) *Iliad I-III* (except *II*, 494-end) with tests concerning constructions, poetic forms, and prosody. (f) Translation into Greek of simple, continuous English prose. (g) Translation into English at sight of continuous Greek prose.

Greek, Advanced (One unit). Candidates must have covered substantially the same ground as that included under Greek 3-4 (see p. 83): at least 1200 additional lines in Homer, Herodotus, Bk. vi., and Plato's *Apology*. Also at least fifteen exercises in Spieker's *Greek Prose Composition*.

History, Elementary (Each of the four divisions, *a*, *b*, *c*, and *d* counts one unit. Candidates for admission to the Schools of Mines, Engineering, and Chemistry may offer one or more of the divisions without restriction. All other candidates may offer any one or any two of the divisions without restriction). (*a*) Ancient, beginning with brief study of Oriental peoples and coming down to the death of Charlemagne, with reference to art, literature and government. (*b*) From 800 on, including growth of the State system. (*c*) English history, including social and political developments. (*d*) American history with the elements of civil government.

Each field may best be covered by an accurate text-book of 300 pp. plus, say, 300 pp. of selected supplementary reading.

History¹ Advanced (One unit). (Candidates must have offered for elementary history either *a* and *b* or *c* and *d*, and must present themselves for examination upon the two divisions *which they did not offer as an elementary subject*.) The work performed must have been of the same kind, amount and quality as that required for History **A1-A2** (see page 118). Supplementary reading emphasizing the significance of historical phenomena. The candidate must present at least 5000 words of notes on each historical field offered, and show practice in making historical parallels in preparing digests of outside reading, and in the use of historical maps.

History, Industrial (Counting one unit). *May be offered for entrance to the School of Practical Arts only.*

Industrial History with special reference to the modern period and to the influence of the numerous factors of industrialism on the social, economic and political aspects of life.

Household Arts (Counting one or two units). *May be offered for entrance to the School of Practical Arts only.*

(*a*) Textiles and Sewing. Nature of common materials, their manufacture and use, principles underlying the construction of simple garments by hand or by machine. Laboratory instruction of not

¹ A certified note-book must be submitted (see page 179).

less than 180 hours. Certified note-books of laboratory exercises must be submitted.

(b) Foods and Cookery. Nature of food materials, principles underlying their preparation and the principles involved in the cooking apparatus. Laboratory instruction of not less than 180 hours. Certified note-books of laboratory exercises must be submitted.

Advanced (either division counting one unit).

With the restriction that offering an advanced unit will involve offering a unit in the corresponding elementary subject.

Italian, Elementary (Two units). The requirement corresponds to that in Elementary French (see p. 181).

Latin, Elementary (Four units), *i. e.*, Latin 4, Cicero and sight translation of of prose; Latin 5, Vergil and sight translation of poetry, and Latin 6, Advanced prose composition; or three units, *i. e.*, Latin 3 with either Latin 4 or Latin 5; or two units *i. e.*, Latin 3.

Latin, Advanced (One unit). Candidates must have covered substantially the same ground as that included under Latin A1-A2 (see page 84). Horace, *Odes*, Bks. I and III, with incidental prosody, and Livy, Bk. XXI and Chapters 41-53, Bk. XXII¹ (or, for Barnard College, Vergil, *Eclogues*, and Ovid, selections). Fifteen exercises from Part I and ten from Part II of Gildersleeve and Lodge's *Prose Composition*.

Mathematics, Elementary (Two and one-half units). (a) Elementary algebra, including—i. the four fundamental operations for rational expressions, and such topics as lowest common multiple, ratio and proportion, linear equations, rad calcs, fractional and negative exponents; ii, quadratic equations, arithmetic and geometric progressions, the binomial theorem for positive integral exponents, the use of graphical methods. (c) Plane geometry—original exercises, loci, mensuration of lines and plane surfaces.

Mathematics, Advanced (One-half to one and one-half units). (b) Advanced Algebra (One half-unit): Permutations and combinations, complex numbers, determinants, numerical equations of higher degree, theory of equations, graphical methods, Descartes's rule of signs, and Horner's method. (d) Solid geometry (One half-unit): Original exercises, loci problems, mensuration of surfaces and solids. (e) Trigonometry (One half-unit): The principal formulas, simple equations and triangles, theory and use of logarithms (without infinite series).

Candidates for admission to the six-year course in Columbia College

¹ For information as to possible substitutions, see *Bulletin Entrance Examinations and Admissions*.

and the Schools of Mines, Engineering, and Chemistry and for the School of Architecture must offer solid geometry and plane trigonometry.

Music. NOTE—A candidate for admission to Columbia College may offer either (a) or (b). A candidate for admission to the School of Music (courses leading to a certificate in Music) may offer either (a) or (b) or both—with or without the addition of Musical Performance.

(a) Musical Appreciation (not involving ability to perform nor to read from printed music) (One unit). (1) The principal musical forms and their historical development; (2) the lives and environment of Bach, Mozart, Beethoven, Schubert, and Chopin, and five other composers; (3) familiarity with certain compositions designated in Bulletin.

(b) Harmony (One unit). The elements of simple harmonization.

(c) Musical Performance (Two units). The candidate should communicate with the School of Music regarding this requirement.

Physics¹ (One unit). The most important facts and laws in elementary physics. Preparation should include the mastery of a standard text-book supplemented by numerical problems, instruction by lecture with demonstrations and individual laboratory exercises—say, mechanics, 13; sound, 3; heat, 5; light, 6; electricity, 8.

Physiography² (One unit). Preparation includes modern text-books and at least forty individual laboratory and field exercises—say, earth as a globe, 5; ocean, 5; atmosphere, 12; land, 18.

Physiology (Counting one-half unit). *May be offered for entrance to the School of Practical Arts only.*

Not less than 90 hours of text-book, demonstration and laboratory exercises covering each of the main topics in Physiology.

Shopwork (One unit). Involving in each subject 180 laboratory hours examination, both written and practical, on the use and structure of tools, nature of shop processes, methods of construction, and properties of materials. Authenticated models may be presented as evidence of technical skill.

The candidate may offer either (a) Woodwork—i, joinery; ii, turning and pattern-making, or (b) Forging, or (c) Machine-work.

Spanish, Elementary (Two units). The requirements correspond to those in elementary French, see page 181.

Zoölogy (One unit). Laboratory and field study, supplemented by text-book and further reading. (1) General natural history of common American animal types. (2) Classification of animals into

¹ A certified note-book must be submitted, see p. 179.

² This is identical with the subject called Geography by the College Entrance Examination Board.

phyla and leading classes. (3) Structure of typical animals—say, frog or fish, decapod, earthworm, hydra, protozoön. (4) Physiology of the types studied and comparison of life processes of animals and plants. (5 and 6) (in a very elementary way) Reproduction, embryology, and (optional) elements of cytology. (7) (optional) Biological history.

REGULATIONS FOR THE DEGREES OF MASTER OF ARTS AND DOCTOR OF PHILOSOPHY

Candidates for the degrees of Master of Arts and Doctor of Philosophy known as the Higher Degrees must hold a baccalaureate degree in arts, letters, philosophy, or science, or an engineering degree from an approved institution,¹ or have an education equivalent to that represented by one of these degrees, such equivalence to be passed upon in every case by the Executive Committee of the University Council.

Each candidate for a higher degree must present to the Dean satisfactory evidence that he is qualified for the studies he desires to undertake.

Candidates for the degrees of Master of Arts and Doctor of Philosophy must pursue their studies in residence for a minimum period of one and two years, respectively;² provided, however, that the period of residence may be proportionately extended of students from institutions in which the course of study is not regarded as equivalent to that in Columbia College. The year spent in study for the degree of Master of Arts is credited on account of the requirement for the degree of Doctor of Philosophy. Residence at other universities may be credited to a candidate. In certain cases and by special arrangement, time exclusively devoted to investigation in the field will be credited in partial fulfilment of the requirement of residence. No degree will be conferred upon any student who has not been in residence at Columbia University as a graduate student for at least one year. The satisfactory completion of work at four Summer Sessions or at two Summer Sessions together with a half-year of the regular academic year, will be accepted as fulfilling the minimum requirement of one year of university residence for the higher degrees.

Professional Schools

Students holding the required first degree who are primarily registered in a professional school of Columbia University, or in an allied professional school, may, with the consent of the faculty of such school, be registered as candidates for the higher degree in the Faculty of Political Science, the Faculty of Philosophy, or the Faculty of Pure Science. In such a case the candidate must take his major subject under one of these Faculties, and must conform to all its rules as regards examinations, essay, and dis-

¹ The standing of any institution conferring the Bachelor's degree may be ascertained by addressing the Secretary of the University Council.

² In practice three years of university residence subsequent to the attainment of the Bachelor's degree, or its equivalent, are usually necessary to obtain the degree of Doctor of Philosophy.

sertation; but he may offer, as the equivalent of four full courses for the degree of Master of Arts and of the two minor subjects for the degree of Doctor of Philosophy, such of his professional courses as may be approved for that purpose by the Dean of the Graduate Faculties.

Each student who declares himself a candidate for the degree of Doctor of Philosophy shall designate one principal or major subject and two subordinate or minor subjects. **Doctor of Philosophy**

Candidates are expected to devote about one-half of their time throughout their course of study to the major subject, and about one-quarter to each minor subject.

Except by vote of the Executive Committee of the University Council upon the recommendation of the Dean and the head of the department concerned, no candidate may choose his major and both minor subjects under one department.

Major and minor subjects may not be changed except by permission of the Dean, on the approval of the heads of the departments concerned.

Both the professor in charge of the major subject and the Dean must pass upon the student's qualifications for the course of study he desires to pursue, and approve his choice of subjects before registration can be effected.

The subjects from which the candidate's selection must be made are:

UNDER THE FACULTY OF POLITICAL SCIENCE

Group I.—History and political philosophy: (1) Ancient and oriental history; (2) medieval history and church history; (3) modern European history from the opening of the 16th century; (4) American history; (5) history of thought and culture.

Group II.—Politics, public law and comparative jurisprudence: (1) Constitutional law; (2) international law; (3) administrative law; (4) Roman law and comparative jurisprudence.

Group III.—Economics and social science: (1) Political economy and finance; (2) sociology and statistics; (3) social economy.

In his choice of subjects under this Faculty, the candidate whose major subject lies within its jurisdiction is limited by the following rules:

A candidate for the degree of Doctor of Philosophy must select one minor subject outside of the group which includes his major subject, and one minor subject within the group which includes his major subject.

The candidate for the degree of Doctor of Philosophy must take, in his major subject, courses occupying at least four hours weekly during each required year of residence (provided that this number of hours be offered in the subject), and must also attend a Seminar during the period of residence. In each minor subject he must take courses occupying at least two hours weekly during each required year of residence.

UNDER THE FACULTY OF PHILOSOPHY

I. Major Subjects: (1) Philosophy; (2) psychology; (3) anthropology; (4) education; (5) linguistics; (6) comparative literature; (7) classical archaeology and epigraphy; (8) Greek language and literature, and, incidentally, Grecian history; (9) Latin language and literature, and, incidentally, Roman history; and the following including in each case the study of both the language and the literature: (10) English; (11) Germanic; (12) Romance; (13) Sanskrit (with Pali) and Iranian; (14) Semitic languages; (15) Chinese. Nos. 1, 2, 3, 4, 6, 10, 11, 12, 13, 14, and 15 may each be offered as the equivalent of a major and one minor subject.

II. Minor Subjects: (1) Philosophy; (2) psychology; (3) anthropology; (4) education; (5) linguistics; (6) comparative literature; (7) Greek; (8) Greek archaeology; (9) Latin; (10) Roman archaeology; (11) Comparative Grammar of Greek and Latin; (12) Sanskrit; (13) Iranian; (14) English; (15) Anglo-Saxon; (16) Gothic; (17) Germanic philology; (18) German language and literature; (19) Scandinavian languages and literatures; (20) Romance philology; (21) French language and literature; (22) Spanish language and literature; (23) Italian language and literature; (24) Hebrew; (25) Arabic; (26) Assyrian; (27) Syriac; (28) Ethiopic; (29) Semitic epigraphy; (30) Turkish; (31) Armenian; (32) Chinese; (33) Coptic; (34) Celtic; (35) Comparative religion.

A candidate for the degree of Doctor of Philosophy may, with the consent of the Dean and of the heads of the departments concerned, select both minor subjects within the same department, and may divide a minor subject, taking parts of two subjects germane to his major subject.

UNDER THE FACULTY OF PURE SCIENCE

(1) Agriculture; (2) anatomy; (3) astronomy; (4) bacteriology; (5) botany; (6) biological chemistry; (7) chemistry; (8) civil and sanitary engineering; (9) electrical engineering; (10) highway engineering; (11) geodesy; (12) geology; (13) mathematics; (14) mechanical engineering; (15) mechanics and electromechanics; (16) metallurgy; (17) mineralogy; (18) mining; (19) paleontology; (20) pathology; (21) pharmacology; (22) physics; (23) physiology; (24) zoölogy.

The departments of Civil Engineering, electrical engineering, mechanical engineering, metallurgy or mining may not be offered as departments of major interest except by candidates who have the corresponding engineering degree.

With the consent of the Dean and of the Departments concerned, (1) the major and one minor subject may be taken under one department, (2) both minor subjects may be taken under one department and one minor subject may be divided.

Each student is given a registration-book in which to keep the record of courses attended. At the beginning and end of each course the professor in charge certifies the student's attendance by his signature. Before

presenting himself for examination for any degree, the student shall submit his registration-book to the Dean in order that the Dean may satisfy himself that the required minimum number of courses has been attended.

Applications for the final oral examination for the degree of Doctor of Philosophy must be filed with the Dean at least two months before one of the three dates at which diplomas are issued (*viz.*, October, February, and June) in order to secure examination before that date.

Each candidate for the degree of Doctor of Philosophy shall present a dissertation embodying the results of original investigation and research on some topic previously approved by the professor in charge of the major subject. When such dissertation has been approved, it shall be printed by the candidate, and one hundred copies shall be delivered to the Registrar. For reasons of weight and on the recommendation of the department concerned, the Dean may waive this requirement if the dissertation has been accepted by a reputable scientific journal and publication within a period of two years has been assured. The Dean may, when he deems it necessary, demand a financial guaranty of eventual publication. On the title-page of every such dissertation shall be printed the words: "Submitted in partial fulfilment of the requirements for the Degree of Doctor of Philosophy, in the Faculty of ———, Columbia University."

Each dissertation shall contain upon its title-page the full name of the author; the full title of the dissertation; the year and place of imprint, and, if a reprint, the title, volume, and pagination of the publication from which it was reprinted; and there shall be printed and appended to each dissertation, in the form of a Vita, a statement of the place and date of birth of the author, of the educational institutions that he has attended, and a list of the degrees and honors conferred upon him, as well as the titles of his previous publications.

No candidate for the degree of Doctor of Philosophy is admitted to examination except on the recommendation of the professor who has approved the topic selected for the dissertation, indorsed by the professors in charge of the major and minor subjects. Every candidate must pass, besides such other examinations as the Faculty in charge of the major subject may require, an oral examination on all three subjects, and must defend the dissertation in the presence of that Faculty, or of so many of its members as may desire or as may be designated to attend.

In the Faculty of Political Science, the examination on the major and minor subjects and on languages, but not on the dissertation itself, may be held before the printed dissertation is submitted.

In the Faculties of Philosophy and Pure Science, the dissertation is not required to be printed until after the examinations of the candidate.

The general examination for the degree of Doctor of Philosophy will not be confined to the courses which the candidate has attended in Columbia University or elsewhere, or even to the field covered by such courses.

The candidate is expected to show a satisfactory grasp of his major subject as a whole and a general acquaintance with the broader field of knowledge, of which this subject forms a part.

The ability to read at sight French and German, to be certified in each case by the Dean, is required by all the Faculties.

In the Faculty of Political Science, the candidate must also show that he is able to read ordinary Latin, unless it shall have been previously certified by the professor, or professors, in charge of the major subject that ability to use this language is not necessary for the proper prosecution of the candidate's researches. On application to the Dean, the candidate may be examined on the required languages one year before presenting himself for the general examination on his major and minor subjects. If no such application be made, he will be examined on the languages in connection with the general examination on these subjects.

In the Faculty of Philosophy, admission as a regular student or as a candidate for the degree of Master of Arts does not admit to candidacy for the degree of Doctor of Philosophy. Only those students are admitted to candidacy for the degree of Doctor of Philosophy who (1) are recommended for such candidacy by the heads of the departments in which their major and minor subjects of study lie; (2) are certified as to their ability to read French and German by the heads of those departments; (3) are certified as to their ability to read Latin by the head of that department, provided that students whose major subject is philosophy, psychology, anthropology, or education, shall not be required to meet this test when it is certified by the professor in charge of their major subject that an ability to read Latin is not necessary for the proper prosecution of their researches. The examinations in Latin, French and German shall be passed at least one academic year before the candidate presents himself for the degree.

No student may continue to be a candidate for the degree of Doctor of Philosophy for a longer period than three years from the time he ceases to be in residence, nor for a longer period than six years from the time of his initial registration for a higher degree.

Master of Arts Each student who declares himself a candidate for the degree of Master of Arts shall designate a department under which he elects to do the major part of his work and shall arrange, in consultation with and under the advice of that department, and subject to the approval of the Dean, a curriculum comprising at least the equivalent of eight full courses of graduate rank.

The departments of civil engineering, electrical engineering, mechanical engineering, metallurgy or mining may not, however, be offered as departments of major interest except by candidates who have the corresponding engineering degree.

No curriculum for the degree of Master of Arts shall include more than four courses which the candidate offers for a professional degree, or for a certificate given in lieu thereof, in any professional school belonging to the University or affiliated with it.

No candidate for the degree of Master of Arts shall be permitted to register for less than the equivalent of one full course in any half-year.

Each candidate for the degree of Master of Arts must file a formal application for the degree on a blank provided for the purpose, to be had of the Registrar. Before this application is filed with the Registrar the title of the essay, if an essay is required, must have been formally approved by the professor in charge and the courses presented in satisfaction of the residence requirements must also have been approved by the Department concerned. If the degree is to be conferred in February, the application must be filed with the Registrar on or before January 15th; if in June, on or before April 15th; if in October, on or before August 1st. The last-named date applies to candidates who shall complete the requirements of residence and attendance in the Summer Session then in progress. Diplomas are issued on the third Tuesday in February, on Commencement day, and on the third Tuesday in October, corresponding, respectively, to the foregoing dates of application.

An essay may be required of candidates for the degree of Master of Arts by the department of major interest or by the Faculty to which said department belongs; when required it shall take the place and be regarded as the equivalent of one full course of the curriculum.

Such essay shall be submitted to the appropriate department at such time as the department may designate. If the essay is accepted, two typewritten or legibly written copies, together with a certificate of acceptance by the professor in charge, shall be deposited with the Registrar at least two weeks before the candidate expects to receive his degree. These copies must be written on "Paragon Linen," 11 x 8½ inches in size, 20-pound weight, 4½ wove, a space of one and one-half inches on the inner margin being left free from writing. The title page shall contain the words: "Submitted in partial fulfilment of the requirements for the degree of Master of Arts in the Faculty of ———, Columbia University."

With the approval of the appropriate departments the Dean may credit work done at another institution, the courses to which such work is deemed equivalent being entered in the curriculum as "completed elsewhere;" but at least five full courses of graduate rank must always be taken at Columbia University.

An undergraduate who at the beginning of any half-year is within twelve points of a bachelor's degree may be permitted, with the approval of the appropriate Deans, to take one graduate course with a view to counting it for a second degree; if within eight points, two; if within four, three. If such student afterwards matriculates as a candidate for the degree of Master of Arts, the graduate courses previously taken by him under this

provision may be entered in his curriculum, without special permission, as "already completed."

On final certification by the Dean of the appropriate Faculty that all official regulations have been complied with, a candidate shall be recommended to receive the degree of Master of Arts for the satisfactory completion within a period of five years of an approved curriculum.

Master of Laws Any student who has graduated from an approved college or scientific school of collegiate rank, or who has successfully completed three years of undergraduate study in an approved college or scientific school, such course of study including satisfactory courses in Economics and in English and American History, and who has also successfully completed three years of study in an approved law school, and who shall thereafter during one year of residence at Columbia University satisfactorily complete a course of study approved by the Deans of the Faculties of Law and Political Science, shall be entitled to be recommended for the degree of Master of Laws.

COLUMBIA COLLEGE

President BUTLER

Faculty

Dean KEPPEL

Term expires 1914: Professors AGGER, BEARD, DUNNING, FISKE, FONTAINE, JORDAN, KEYSER, ¹MCCREA, MCGREGOR, MAYER, MEYLAN, MITCHELL (H. B.), SALT, SCHUYLER, SELIGMAN, SHOTWELL, ALEXANDER SMITH, TASSIN

Term expires 1915: Professors CALKINS, COHN, CURTIS, EGBERT, FARRAND, FITE, GROVE, HERVEY, JACOBY, KEMP, LOISEAUX, LORD, MCCASTLINE, ODELL, PERRY, THOMAS

Term expires 1916: Professors DAVIS, ERSKINE, HAWKES, HAYES, HEUSER, JONES, Chaplain KNOX, LOCKWOOD, ²MASON, F. G. MOORE, SEAGER, SICELOFF, WENDELL, WOODBRIDGE, WOODWORTH, YOUNG

ON INSTRUCTION: The Dean (*Chairman*), Professors YOUNG, ODELL, CALKINS, HERVEY, H. B. MITCHELL, and HAYES **Committees**

ON SCHOLARSHIPS: The Dean (*Chairman*), Professors HAWKES, LOCKWOOD and SCHUYLER

Delegates to the University Council, see page 4.

ADMISSION

For the details of admission to the Freshman Class see page 173.

A candidate for admission to advanced standing upon the basis of work done at another college should obtain and file, at least one week before the September or January entrance examinations, the appropriate application blank, with a transcript of his academic record, and a marked catalogue of the institution that he leaves. **Advanced Standing**

Appropriate credits up to a maximum of 18 points of the 124 required may be made by students who offer more than the prescribed number of units at entrance.

Students of serious purposes who are in a position to fulfil the requirements for admission to the Freshman class or who have had a valuable educative experience in practical life, may be admitted as non-matriculated students to pursue courses without reference to any degree. For details see the current *Announcement of Columbia College*. **Special Courses**

¹ Absent on leave second half-year.

² Absent on leave 1913-14.

REGISTRATION AND FEES (see page 47)**SCHOLARSHIPS** (see page 435)

Program of Studies The period within which the requirements for the degree of A.B. or B.S. may be satisfied varies with the capability and industry of the individual student. In most cases four years are spent in making the required number of points; students of ability and industry frequently complete the course in less time, especially if advantage be taken of courses in the Summer Session, or additional credit be gained by high standing; no student may spend more than six years as a candidate for a degree.

General Regulations 1. The requirement for graduation is 124 points, the term "point" signifying the satisfactory completion of work requiring attendance one hour a week for one half-year, laboratory hours counting one-half.

2. When practicable, prescribed subjects must be taken during the first two years.

3. No combination of courses amounting to less than 12 or more than 19 points may be made in any half-year.

4. Prior to graduation the student must have completed the equivalent of three years of sequential study, in courses aggregating at least 18 points beyond the elementary requirement for admission, in each of two departments.

For A.B. candidates at least one sequence must be in Classical Philology, English, Germanic Languages and Literatures, History, Philosophy, or Romance Languages and Literatures; and for B.S. candidates at least one in Botany, Chemistry, Geology and Mineralogy, Mathematics, Physics, or Zoölogy.

5. Admission to courses depends strictly upon completion of the stated prerequisites. Where none is stated the course may be taken and counted for a degree by any student of the College.

6. A student whose record as to prescribed subjects is satisfactory to the Committee on Instruction is permitted upon completion of 94 points to elect two graduate courses which his previous training will enable him to pursue with profit.

7. No student may take more than four hours' work (not including laboratory work) on the same day, or more than nine hours' work per week in any one department.

8. No one-hour course will be allowed unless taken in connection with or as a supplement to a cognate course.

9. To be recommended for a degree, a student must have made at least 84 points in actual college residence and of these at least 24 in Columbia College.

For Honors Candidacy 1. *Conditions of candidacy.* Any student free from entrance conditions may, with the approval of the Committee on Instruction, elect

to study for a degree with honors and pursue a curriculum involving less prescribed work but more independent reading and more thorough study in chosen subjects than are required of the general candidates for a degree. Such students are listed as "Candidates for a degree with honors."

2. *The choice of honor subjects.* The choice between the honor curriculum and the general curriculum is ordinarily to be made not later than April 15 of the Freshman year.

The candidate shall then choose one department in which he will offer honor work and shall be assigned to a representative of that department who shall thereafter act as his Faculty Adviser. In consultation with this Adviser the student shall elect, as he prefers, either one or two other sequential series of honor courses (see Rule 4, page 195), and arrange a schedule of studies for the coming year.

3. *The honor sequences.* The granting of honors is dependent upon the completion with high standing of two or three approved three-year sequences together with such supplementary reading as may be required in connection therewith, and upon a final general examination covering the entire field of his honor work.

4. In the first year no extra work is required of the candidate for honors and no extra credit is given. In the second and the third years, the candidate is assigned supplementary reading, and provision is made for guiding this reading through personal conference or pro-seminars. In each subject an additional credit of two points each term is allowed for this supplementary reading when satisfactorily completed.

The attainment of an honor grade in the final general examination (see paragraph 7) entitles the student to an extra credit of four points for each sequence of courses.

5. *Prescribed courses.* The candidate for a degree with honors is relieved from much of the work prescribed for other students and in the case of students offering three honor sequences the following courses only are definitely prescribed: English A, History A, Mathematics A, Physical Education; and also Latin A or Greek 3-4, for A.B. candidates only; French A and B or German A and B, for B.S. candidates only.

Candidates offering but two honor sequences are expected to complete all the prescribed courses as given on page 196, or their substantial equivalent.

6. *Standing required of honor men.* If at the end of any term examination a student fail in two honor subjects to attain a grade of A or B, he is rejected as a candidate for honors and given appropriate credit toward an ordinary degree.

7. *Final examination for honors.* Upon the attainment of 112 points of College credit (or 116 for men offering but two honor subjects), including the satisfactory completion of the honor sequences, the candidate is given a final general examination in each of his three subjects. These examinations cover the class-room work of the three years, and test the extent

and thoroughness of the assigned supplementary reading. A grade of A in all subjects entitles the candidate to receive a Bachelor's degree with highest honors. A combination of A's and B's entitles him to a degree "with high honors," and uniform grades of B to a degree "with honors." A candidate failing to win honors at his final general examination may be given appropriate credit towards an ordinary degree.

8. *The time required for the attainment of a degree with honors.* If a candidate chooses three honor sequences in subjects in which he presented the full entrance offering and which he pursued in his Freshman year, it is possible for him to attain a degree with honors in three years of College residence, without attending the Summer Session, but using the vacation for honor reading. Other candidates will require four years.

By remaining in residence four years the candidate may concentrate the general courses in the Freshman and Sophomore years, and devote his entire time as Junior and Senior to the pursuit of his honor study. This course is recommended wherever practicable.

9. *Honors as a preparation for professional study.* Students looking forward to entering upon the study of a profession will find in the appropriate honor courses the most thorough preparation for their later work; and the opportunity which is offered to obtain a Bachelor's degree with honors in three years preserves to the candidate for honors the advantages of the combined collegiate and professional course.

**For Degree
without
Honors**

Unless the equivalents have been offered for admission, the following courses, counting in points as indicated, are prescribed for students who are candidates for a degree but not for honors:

English A and B (10); History A (6); French or German, A and B (12); Mathematics A (6); Philosophy A (6); Physical Education (2 or 4); and also for A.B. only, Latin A or Greek 3-4 (6); two half-year courses in Natural Science (6 minimum), or for B.S. only, Chemistry A and Physics A (16).

A three-year program leading to the degree of B.S., with special reference to the professional courses in the Schools of Mines, Engineering and Chemistry has been organized and full information regarding it may be obtained from the Secretary of Columbia University.

**Professional
Options**

A student desiring to enter upon professional studies before graduation from the College, who has completed not less than 64 points in Columbia College¹ and with no deficiencies in prescribed work, may exercise one of the following options:

(a) Upon receiving 72 points' credit he may take the studies of the first

¹ In exceptional cases, students of high scholarship who have completed two years of College work elsewhere may satisfy the residence requirement by the completion of 34 points, not including Summer Session or Extension Teaching.

year in any one of the following professional schools of the University, provided he can satisfy the stated requirements for admission thereto, and may receive the degree of A.B. or B.S. upon the satisfactory completion of two years' work in such professional course:

The College of Physicians and Surgeons

The Schools of Fine Arts (Architecture and Music)

The School of Journalism

- (b) Upon receiving 94 points' credit he may similarly take and count towards the Bachelor's degree one year's work in any of the above schools and also in the School of Law or (in 1913-14) by registering as a candidate for a diploma in teaching in Teachers College.

It should be noted that in general no course for which credit is given toward a professional degree may be included in the preliminary credit requirement.

They may also, under suitable circumstances, offer toward the Bachelor's degree courses given at the Union Theological Seminary or the General Theological Seminary, or if they are within twelve points of receiving the Bachelor's degree, they may take certain graduate courses in addition to their undergraduate programs.

The mark A in any two courses completed in a half-year or Summer Session (no course being counted twice) entitles a student who has not fallen below the mark B to one point of extra credit. In Physical Education a mark of C will not disqualify. **Miscellaneous**

All students admitted with conditions are assigned for advice to the Committee on Admissions until such time as their entrance deficiencies or conditions be removed. All candidates for honors are assigned for advice to a representative of the department in which they first elect honor work. All other students are assigned to the Dean of the College, or to such officer of instruction or administration as he may designate.

The student's performance in a course is reported according to the following grades: A, excellent; B, good; C, fair; D, poor; F, failure.

A student who receives a mark of F in any prescribed course must repeat that course. In any half-year or Summer Session not more than one course, marked D, may be counted toward a degree.

Within three weeks after the close of an examination period a final report of standing for the half-year is sent to the student, to his parent or guardian, and to his faculty adviser. The report indicates the number of points which the student has obtained to date and his deficiencies, if any, in entrance requirements and prescribed courses. Tentative reports are also made at mid-term.

All petitions for changes in, or additions to, a student's record must be made within four months of the time at which the entry was made or should have been made.

Matriculated students whose record as to entrance conditions and the completion of prescribed courses is satisfactory to the Committee on Instruction, are classified in the University Catalogue as follows:

Freshmen, those who have less than 26 points

Sophomores, those who have completed 26 points

Juniors, those who have completed 58 points

Seniors, those who have completed 88 points

The following additional matters are dealt with in the separately printed *Announcement of Columbia College* for 1913-14, which may be had upon application to the Secretary of the University.

Description of Hamilton Hall: Advice as to choice of studies: Regulations governing absences: Statement of courses which may be taken by College Students with their prerequisites: Personal relations of students: Probational standing: System of examinations.

REGISTER OF STUDENTS

COLUMBIA COLLEGE

NOTE.—Matriculated students are classified according to the regulations printed in the *College Announcement* for 1913-14.

SENIORS—CLASS OF 1914

ADLER, HAMILTON.....	New York City
ALLEN, RALPH BERGEN.....	Manhasset, N. Y.
BARTH, ERNEST ALBERT.....	New York City
BATURIN, MOSES.....	Harrisburg, Pa.
BECKWITH, ALBERT J.....	New York City
BEIDLEMAN, FRED ALLEN.....	New York City
BELL, ALFRED LEE LOOMIS.....	Englewood, N. J.
BENDER, RAYMOND CASPAR.....	Elizabeth, N. J.
BENTKOWSKI, HENRY CASIMIR.....	New York City
BERLINER, IRWIN M.....	New York City
BERNSTEIN, LOUIS.....	New York City
BLACKWELL, JAMES MADISON.....	New York City
BOESHETSKY, MITCHELL ELI.....	New York City
BOOTH, FRANK.....	New York City
BOTSFORD, JAY BARRETT.....	Mt. Vernon, N. Y.
BRADY, LEOPOLD.....	New York City
BRENNECKE, HENRY CARL (candidate for honors).....	New York City
BRINKERHOFF, HAROLD TICE.....	New York City
BUTLEF, CHARLES ALLEN.....	New York City
CATZEN, BERTRAM.....	Baltimore, Md.
CHENEY, GUY ARTHUR.....	Morrisville, Vt.
CLARK, JOSEPH DEADRICK.....	Jonesboro, Tenn.
CLASS, JOHN LYONS.....	New York City
COHEN, SAMUEL COLEMAN.....	New York City
COWAN, JOHN HARDING.....	New York City
CRAMPTON, WILLIAM DE WITT, JR.....	Naugatuck, Conn.
DAWSON, GEORGE MILLARD.....	Denver, Colo.
DEMUTH, FRANK WOLF.....	New York City
DENNEY, LUCIEN CURTIS.....	Springfield, O.
DILLS, DUANE R.....	Scranton, Pa.
EGBERT, LESTER DARLING.....	New York City
FICHTER, WILLIAM LEOPOLD.....	New York City
FISHER, HENRY LAPE.....	New York City
FORBES, GILBERT.....	New York City
FRIEDRICH, CHARLES HENRY S.....	New York City
GARRY, LOUIS S.....	New York City
GERSON, BERNARD FELIX.....	Montgomery, Ala.
GORDON, FRANK A.....	Elizabeth, N. J.
GOTTLIEB, BERNARD.....	New York City
GRAFTON, HORACE KIRBY.....	New York City
GRAHAM, ALVIN LIDDON.....	New York City
GRIFFEN, RICHARD FIELD.....	New York City
GRIMSHAW, HENRY ERNEST.....	Garden City, N. Y.

HAAREN, ARTHUR HERMAN.....	New York City
HALL, CECIL JOHN.....	New York City
HARVITT, ADOLPH.....	New York City
HAUBEN, LOUIS.....	New York City
HEARN, CORNELIUS, JR.....	New York City
HENDRICKS, HENRY SOLOMON.....	New York City
HENRY, LEONARD STARR.....	New York City
HERKERT, KARL, JR.....	New York City
HERRING, ALBERT CRAWFORD.....	New York City
HUBBARD, BELA.....	Detroit, Mich.
JACOBSON, DAVID LYON.....	Jersey City, N. J.
JENSEN, ERIK LEONHARD.....	New York City
JOHNSON, ALFRED ANTHONY.....	Englewood, N. J.
JOHNSON, HERBERT BRIGHTWELL.....	New York City
KAUFFMAN, HENRY.....	Hackensack, N. J.
KAUFMAN, SAMUEL.....	Newark, N. J.
KELLY, EDWIN MANUEL.....	New York City
KERR, D. RENWICK (candidate for honors).....	New York City
KEYES, CARLYLE MARLETT.....	Cooperstown, N. Y.
KINNEY, JOHN APLIN.....	Buffalo, N. Y.
KNAPP, CHARLES MERRIAM.....	New York City
KNUTH, HARVEY GREY.....	Dayton, O.
KONARSKI, MICHAEL MIECZYSLAW.....	New York City
KOTTEK, HERBERT.....	New York City
KRAVZOFF, AARON.....	Newark, N. J.
KUHN, ISIDOR.....	New York City
LA CORTE, SALVATORE FRANCIS.....	Elizabeth, N. J.
LAGUARDIA, GARIBALDI (candidate for honors).....	New York City
LASHER, JOHN KENNEDY, JR.....	Yonkers, N. Y.
LEGGETT, THOMAS HAIGHT, JR.....	Plainfield, N. J.
LEHMAN, EDWARD.....	Weston, W. Va.
LEINER, JOSEPH.....	New York City
LINTZ, JOSEPH.....	New York City
LORENTZ, MILTON MORDECAI.....	New York City
LYNCH, JAMES A., JR.....	New York City
MCCALLUM, JAMES DOW (candidate for honors).....	Nutley, N. J.
McNULTY, DONALD STUART.....	New York City
MAGNETTE, JULES, JR.....	Newark, N. J.
MALLORY, VIRGIL SAMPSON.....	New Durham, N. J.
MANDELL, AMBROSE J. E.....	New York City
MATHESON, GEORGE WILSON.....	New York City
MAYER, DONALD REGIS.....	Meadville, Pa.
MEENAN, DANIEL LEO, JR.....	New York City
MILBANK, ROBERT WATKINSON, JR.....	New York City
MORRIS, LLOYD REGINALD.....	New York City
MURPHY, GEORGE BERNARD.....	New York City
NEKARDA, VICTOR FRANCIS.....	New York City
NEWMAN, DOUGLAS.....	New York City
NIELSEN, LAWRENCE HENRY.....	New York City
NUSSBAUM, BENJAMIN.....	Pleasantville, N. Y.
NYLAND, FRITZ CHARLES.....	Glen Ridge, N. J.
O'NEILL, JAMES ALLAN.....	Haverstraw, N. Y.
PANG, CLINTON MINDIL (candidate for honors).....	New York City
PARSONS, JOHN PALMER.....	New York City
PETERSON, CHESTER WILLIAM.....	New York City

PHIPPS, FRANCIS HARLOE.....	Mt. Vernon, N. Y.
PURDY, JAMES HOWARD, JR.....	New York City
RAPPAPORT, JACK L.....	New York City
ROGERS, MALCOLM FLETCHER.....	Oconomowoc, Wis.
ROHRS, GEORGE CARLTON.....	New York City
ROSEFF, ALEXANDER.....	Mt. Vernon, N. Y.
ROTH, SOLO.....	New York City
ROTHWELL, ALBERT CYRIL (candidate for honors).....	New York City
RUBIN, SAMUEL.....	New York City
SAMUEL, MILTON.....	Bayonne, N. J.
SANDHUSEN, LOUIS HENRY.....	New York City
SCHRADER, FRANZ.....	Annadale, N. Y.
SHAW, FRANK DUNLAP, 2d.....	New York City
SMITH, RALPH KITCHEL.....	East Liverpool, O.
SMITHERS, ADELBERT F (candidate for honors).....	New York City
SOMERVILLE, RANDOLPH.....	New York City
SPITZ, FRANK MAURICE.....	Albuquerque, N. M.
STABLEFORD, RICHARD GORDON, JR.....	New York City
SUTLIFF, EDWARD HARRISON.....	New York City
UNDERHILL, EDWARD MARVIN.....	Fishkill, N. Y.
VALENTINE, KENNETH STERLING.....	New York City
VAN ALSTYNE, WARD.....	New York City
VAN BUREN, MAURICE PELHAM.....	New York City
VEAZIE, WALTER BROAD.....	Ione, Wash.
VON HOFE, GEORGE D., JR.....	Orange, N. J.
VOORHIES, JAY.....	New York City
WAGNER, FREDERICK CORTLAND.....	Chesterton, Ind.
WATKINS, W. KENNETH.....	New York City
WEBB, G. RAYMOND.....	Buffalo, N. Y.
WEISKOTTEN, HERBERT THEBERATH (candidate for honors).....	New York City
WESTERFIELD, WALTER H.....	So. Willington, Conn.
WHELAN, FRANK RAYMOND.....	New York City
WILSEN, WILLIAM HARRY.....	Greenport, N. Y.
WILSON, JAMES.....	Jersey City, N. J.
WILSON, WILLIAM SATTERLEE.....	New York City
ZEYDEL, EDWIN HERMANN (candidate for honors).....	New York City
ZVIRIN, EMIL.....	Larchmont, N. Y.

[135]

JUNIORS—CLASS OF 1915

ANTHONY, HAROLD ELMER.....	New York City
BAGG, HALSEY JOSEPH.....	New York City
BAKOVITZ, HARRY.....	New York City
BARON, JOSEPH (candidate for honors).....	New York City
BARON, JOSEPH LOUIS.....	New York City
BARTHLOW, BENJAMIN HILSDON.....	Mt. Vernon, N. Y.
BAUMEISTER, PHILIP.....	New York City
BEERY, RAY COPPOCK.....	Pleasant Hill, O.
BELLINGER, WILLIAM HART.....	New York City
BENIKOFF, ALEXANDER.....	New York City
BHADKAMKAR, PURUSHOTTAM.....	Satara, Bombay, India
BIERMAN, WILLIAM.....	New York City
BIJUR, SHERMAN M.....	New York City
BÖHM, EDWIN MILTON.....	New York City
BRAISLIN, WILLIAM DONALD.....	New York City

BRAVERMAN, BENJAMIN.....	New York City
BURGHARD, EDWARD GEORGE.....	New York City
BUSH, ABRAHAM MOSES.....	New York City
CALDER, ECKHARDT.....	Montclair, N. J.
CANNON, TOWNSEND LAING.....	New York City
CHASE, ALBERT WOODWORTH.....	Catskill, N. Y.
CLARK, WILLIAM DANIEL.....	Katonah, N. Y.
CLARKE, THOMAS McLAUGHLIN.....	New York City
COLLETTI, JAMES.....	New York City
COVER, JOHN HIGSON.....	Johnstown, Pa.
DANZIG, SAMUEL VALLANCE HYATT.....	Albany, N. Y.
DEEGAN, JOSEPH FRANCIS.....	Perth Amboy, N. J.
DIEBOLT, ALFRED LEO.....	Buffalo, N. Y.
DRULLARD, ALFRED BENNETT.....	New York City
DU BOIS, ROBERT OGDEN.....	New York City
DUNBAR, DOUGLAS LINDSEY.....	Dobb's Ferry, N. Y.
DWYER, WALTER WILLIAM.....	New York City
EDWARDS, FREDERICK TREVENEN.....	New York City
EISNER, MOSES NATHANIEL.....	Poughkeepsie, N. Y.
ELLINGER, LOUIS JULIUS.....	New York City
ELSTEIN, CHARLES.....	New York City
ELWYN, ADOLPH.....	New York City
FAY, THOMAS YUEN.....	New York City
FEIN, JACOB.....	New York City
FEINBERG, CLEMENT.....	New York City
FERBER, JACOB.....	New York City
FERN, SAMUEL SIDNEY.....	Elizabeth, N. J.
FINK, EMIL HENRY.....	White Plains, N. Y.
FOERSTER, WALTER FRANK L.....	New York City
FOSTER, H. CLAY LAMAR.....	New York City
FREUDENFELS, EMIL.....	New York City
FUSFELD, IRVING S.....	New York City
GALT, JOHN MEARES.....	Williamsburg, Va.
GOLD, HENRY.....	New York City
GOODMAN, HERMAN.....	New York City
GOODMAN, ROBERT.....	New Bedford, Mass.
GRANT, PRYOR McNEILL (candidate for honors).....	Birmingham, Ala.
GROSSBAUM, BENJAMIN.....	New York City
HALDENSTEIN, ALFRED AUGUSTUS.....	New York City
HALL, CHARLES ERNEST.....	Dayton, Va.
HAYFORD, SAMUEL.....	Albany, N. Y.
HENRY, J. PAUL.....	Fremont, O.
HERBERT, WILLIAM H.....	New York City
HERMAN, HAROLD.....	New York City
HERSON, OTTO.....	New York City
HIGGINS, GILBERT HENRY.....	Bayonne, N. J.
HOFFMAN, MOSES DAVID.....	Newark, N. J.
HOLZINGER, JOHN J.....	New York City
HUYLER, WASHINGTON CONNOR.....	Tenafly, N. J.
HYMAN, HAROLD THOMAS.....	New York City
ILSEN, WERNER REGINALD (candidate for honors).....	New York City
JABINE, LOUIS.....	Yonkers, N. Y.
JEWETT, FREDERICK WILLIAM.....	New York City
JOHNSTON, WILLIAM SHERMAN.....	New York City
KAPLAN, JULIUS.....	New York City

KEMP, PHILIP KITTREDGE.....	New York City
KIMM, WILLARD IVES (candidate for honors).....	Dolgeville, N. Y.
KLINGENSTEIN, PAUL HENRY.....	New York City
LAZARUS, ARTHUR.....	New York City
LEONARD, CHESTER F.....	New York City
LOESCH, HUGO GEORGE.....	New York City
LOS KAMP, HAROLD DANA.....	New York City
LOVE, JOHN W., JR.....	New York City
MCELHINNY, JOHN JOSEPH.....	New York City
MACROSSIE, ALLAN ALBERT.....	New York City
MALLETT, JAMES REGINALD.....	Salisbury, N. C.
MARCUS, LAZARUS.....	New York City
MAY, MORTIMER.....	New York City
MEIERHOF, HAROLD L.....	New York City
MENKEN, HAROLD D.....	New York City
MEYER, HERBERT LINCOLN.....	New York City
MILLER, HAROLD JAMES.....	New York City
MILLER, HAROLD WHARTON.....	New York City
MOORE, WALTER V.....	New York City
MOORHOUSE, ERNEST BIRD.....	Tarrytown, N. Y.
MURPHY, JAMES ADAM.....	Buffalo, N. Y.
NEVIN, WILLIAM M.....	New York City
NEWMAN, FRED WHITLOCK.....	New York City
NEWMAN, JULIEN WHITLOCK.....	New York City
NOREK, ALFRED.....	New York City
O'REILLY, VINCENT J.....	Jersey City, N. J.
OSGOOD, HAROLD SYMONDS.....	New York City
OSTERHUS, GUSTAV KVALE (candidate for honors).....	New York City
OSTERMAN, CONRAD KOLLMAN.....	Jersey City, N. J.
PASZEK, LEON FRANK.....	New York City
PATTERSON, WILLIAM A. (candidate for honors).....	New York City
PEARL, PAUL LOUIS.....	New York City
PERKINS, JOHN RICHARD.....	Greenwich, Conn.
RADELOFF, JOHN ARTHUR.....	New York City
REIBEL, JULIUS.....	Elizabeth, N. J.
REUBEN, MILTON HAROLD.....	New York City
RHINEHART, ARCHIE E.....	New York City
RICHARD, EDWARD KARL.....	New York City
ROBINSON, LELAND REX (candidate for honors).....	E. Orange, N. J.
RONEY, JOHN LEE.....	N. Franklin, N. Y.
ROSEMAN, SAMUEL IRVING (candidate for honors).....	New York City
ROSENTHAL, HARRY MORRIS.....	New York City
ROTHENBERG, DAVID M.....	New York City
SALWEN, EMANUEL.....	New York City
SANBORN, VINCENT GUY.....	New York City
SANDS, WALTER HAROLD.....	Mt. Vernon, N. Y.
SCOVA, LEWIS.....	New York City
SCHMUCKLER, JACOB.....	New York City
SEGEL, JULIUS.....	New York City
SLAYTON, MAXIMILLIAN H.....	New York City
SMITH, CLARENCE BRUCE, JR.....	New York City
SMITH, GEORGE ALLEN.....	Port Chester, N. Y.
SOPHRIN, MICHAEL.....	New York City
SPENCE, PHILIP SUMNER.....	New York City
STAM, PETER, JR.....	Paterson, N. J.

STEIN, MORRIS.....	New York City
STERN, DAVID SUSSMAN.....	New York City
STILLMAN, WALTER MARTIN.....	Council Bluffs, Ia.
STRAFFIN, HOWARD ALDEN.....	New York City
STRAUSS, SAMUEL WOLFF.....	New York City
SUSSMAN, SAMUEL ABRAHAM.....	New York City
SVIRSKY, MAX.....	New York City
SWEENEY, JOHN GORDON (candidate for honors).....	New York City
TANZOLA, JOSEPH JOHN.....	New York City
TENOPYR, OTTO KAR.....	New York City
THOMPSON, WILLIAM GORDON.....	New York City
TITLAR, RALPH S.....	Ossining, N. Y.
TRAINER, CAMILLUS ROGERS.....	New York City
TRAUSIL, OTTO JOHANNES.....	New York City
VAN GAASBEEK, HAROLD C.....	Kingston, N. Y.
VESSA, MICHAEL C.....	New York City
WEIL, FRANK LEOPOLD.....	New York City
WEST, WILLIAM L.....	New York City
WILSON, JOHN ALBERT.....	Bentham, England
WOOD, ALEXANDER HEMSLEY.....	New York City
WOODRUFF, WILLIAM HARRISON.....	Green Village, N. J.
WÜLFING, FREDERICK WILLIAM.....	New York City

[147]

SOPHOMORES—CLASS OF 1916

ADAMS, HAROLD BRISCOE.....	New York City
ALLISON, JAMES WATERS, JR. (candidate for honors).....	Richmond, Va.
AMANT, ALEXANDER.....	New York City
APPELBAUM, EMANUEL.....	New York City
APPLEBY, EDGAR TOWNSEND.....	New York City
APPLEBY, FRANCIS STORM.....	New York City
ARCHER, DANIEL GORDON.....	Nyack, N. Y.
ARMSTRONG, JOSEPH BARTLETT (candidate for honors).....	New York City
ASPINWALL, JOHN FAWES.....	Jersey City, N. J.
ATWOOD, KIMBALL CHASE, JR. (candidate for honors).....	Oradell, N. J.
AXELROD, HERMAN.....	New York City
BABCOCK, EDWARD HOWARD, JR.....	New York City
BAER, STERLING.....	New York City
BAEYERTZ, FRANCIS PHELPS.....	Whittier, Cal.
BALDWIN, JOHN SEARS (candidate for honors).....	New York City
BARKER, P. ERSKINE.....	Yonkers, N. Y.
BARONE, MELCHISEDECH ALFRED.....	So. Norwalk, Conn.
BARTOW, CHARLES SINGLETON, JR.....	New York City
BECK, R. DONALD.....	New York City
BENNETT, CHARLES W., JR.....	New York City
BERICK, MORRIS.....	Cleveland, O.
BERNSTEIN, HAROLD.....	New York City
BIERHOFF, ALAN FREDERIC.....	New York City
BLACK, DOUGLAS MCCREA.....	New York City
BLISS, FRANCIS WILLIAM.....	Scarsdale, N. Y.
BONGIORNO, PHILIP.....	New York City
BRAINERD, HOWARD R.....	New York City
BRICKER, HARRY CHARLES (candidate for honors).....	New York City
BRIDGES, MILTON ARLANDEN.....	New York City
BROWN, ADDISON.....	New York City

BROWN, J. EARLE	New York City
BROWN, NICHOLAS (candidate for honors)	Jersey City, N. J.
BURDELL, GEORGE HERBERT	New York City
BUTLER, GEORGE PRENTISS, JR.	Tonawanda, N. Y.
CAMPBELL, DUNCAN	New York City
CHEN, CHIA HSIUN	Changpai, China
CHOW, JON AL	Canton, China
CLARK, EDWARD BURDEMAN	New York City
CLARK, WARD RATHERBY (candidate for honors)	Ithaca, N. Y.
CLEVELAND, JAMES HARLAN	New York City
CORRELL, GEORGE GILFILLAN, JR.	New York City
COHEN, SAMUEL LEWIS	New York City
COHEN, CHARLES ELLIS	New York City
COOKIN, ALAN BRUCE	Plainfield, N. J.
CORRETT, WILLIAM HYSOON	New York City
CORNWALL, CLYFF	Spout Hill, N. J.
CRANE, ARTHUR SETON	New York City
CRIVEN, JOHN D.	Jersey City, N. J.
CROVENSBERG, CHARLES WILLIAM	Mt. Vernon, N. Y.
CURRIER, GILMAN STEWART	New York City
CURRY, DAVID AUGUST	New York City
DANIELSON, LESTER C.	New York City
DARLINGTON, ELLIOTT C. B.	Harrisburg, Pa.
DEBOSTHELE, ALFRED JAMES, JR.	New York City
DONNERSTEIN, MORRIS	New York City
DUNCAN, JAMES DONALD	New York City
DUNHAM, FRANKLIN GEORGE	New York City
DURBIN, WILLIAM JOSEPH	New York City
EDINGER, HAROLD HAROLD	Jersey City, N. J.
EMERSON, DAVID HERBERT	New York City
EMERSON, BENJAMIN IRVING	Ardsley, N. Y.
ENGEL, SOUTON (candidate for honors)	New York City
ENGST, HERMAN	East Orange, N. J.
ESCHER, FREDERICK JAMES	New York City
EVANS, LEON WILLIAM	New York City
EVERTSON, DWANE FERGUSON	New York City
FEENEY, ANASTAS EDWARD	New York City
FISCHER, HENRY SALL	New York City
FLOWERS, HOWARD LEE	New York City
FOSS, WENTWELL C. (candidate for honors)	New York City
FRIE, EDWARD BROWN, JR. (candidate for honors)	New York City
FRANKE, LEE REYNOLDS	New York City
FRANKLIN, RUFORD DAVID	Seminole, N. J.
FRIEDMAN, ISAAC (candidate for honors)	Washington, D. C.
FRET, WALTER GREENBERG, JR.	New York City
GAHAN, CUSTEN	Denver, Colo.
GAHNER, FREDERICK WILLIAM CONRAD	New York City
GILBERT, JOSEPH ELIAS	Vienna, Russia
GILLES, FRANKIE CHARLES	New York City
GINSBERG, PHILIP	New York City
GOODWIN, WALTER CAMPBELL	New York City
GORDON, PHILIP (candidate for honors)	Newark, N. J.
GRAHAM, STEWART EDWARD	New York City
GREENBERG, CHARLES M.	Syracuse, N. Y.
GUDENBERG, ROBERT MORTON	New York City

HAGEMEYER, FRANK HERBERT.....	New York City
HALL, FRANCIS CHAUNCEY.....	New York City
HAMILTON, CHARLES EDWARD.....	New York City
HAMMERSTEIN, OSCAR.....	New York City
HANAWAY, ROY.....	New York City
HARVITT, HENRY GEORGE.....	New York City
HASTINGS, FREDERICK ALLEN.....	New York City
HENNE, ARTHUR WILLIAM.....	New York City
HERRMANN, GASTON JULIEN.....	New York City
HIEMENGA, JOHN J.....	Passaic, N. J.
HOFFMAN, STODDARD.....	New York City
HOLTHUSEN, HARRY FRANK.....	New York City
JOHANSON, ALBERT MATHEW.....	New York City
KAHN, CHARLES LEONARD.....	New York City
KILLOUGH, WALTER HENRY DEAN.....	New York City
KLAUSNER, DAVID MAURICE.....	Jersey City, N. J.
KLEBAN, MORRIS.....	New York City
KRANDLE, HARRY MILTON.....	New York City
KRULEWITCH, MELVIN LEVIN.....	New York City
KUPFER, MILTON PHILIP.....	New York City
LAGUARDIA, CINCINNATTI JOHN B. (candidate for honors).....	New York City
LAMADE, GEORGE ROBINSON.....	Williamsport, Pa.
LAMB, HAROLD ALBERT.....	New York City
LAURIER, CARL.....	New York City
LEVINE, ISADOR BAER.....	New York City
LEVINSKY, AARON.....	New York City
LEW, TIMOTHY TINGFANG.....	Athens, Ga.
LION, HAROLD SIDNEY.....	New York City
LIPMAN, LEON H.....	New York City
LOEWY, MAURICE BERNHARD.....	Hoboken, N. J.
LOURIA, HENRY WALTER.....	New York City
MCCALLUM, KENNETH LEE.....	New York City
MCCRACKEN, ROBERT WYLIE.....	New York City
McHALE, WILLIAM.....	New York City
MACLACHLAN, HOWARD J.....	Yonkers, N. Y.
MAHON, ELWOOD JOHN (candidate for honors).....	New York City
MALISOFF, WILLIAM.....	New York City
MARGOLD, CHARLES WILLIAM.....	New York City
MARIANO, JOHN.....	New York City
MAYER, JACK WILBUR, JR.....	New York City
MENDES, A. PIZA (candidate for honors).....	New York City
MEYER, H. WILLY.....	New York City
MILLER, HOWARD, JR.....	New York City
MONSER, JOHN WILLIAM.....	New York City
MOORE, WALTER LOUIS.....	Springfield, Mass.
MORRIS, WILLIAM.....	New York City
MOUQUIN, LOUIS H. F.....	New York City
MUNRO, WILLIAM WALLACE.....	East Orange, N. J.
NAUMER, HARRY AUGUST.....	New York City
NEUMANN, EMANUEL.....	New York City
O'MALLEY, COLUMBUS AMBROSE.....	Yonkers, N. Y.
O'NEALE, JAMES SAUNDERS, JR.....	New York City
ORAM, RUSSELL MAXFIELD (candidate for honors).....	New Brunswick, N. J.
OSSWALT, ROBERT LEWIS.....	New York City
OSTROW, AUGUST.....	Newark, N. J.

PEARLMAN, JOSEPH.....	New York City
PERRY, RALPH REDMAN (candidate for honors).....	San Francisco, Cal.
PFEIFFER, WALTER PRICE.....	New York City
PHILLIPS, ROBERT BEACH.....	Alexandria, Ind.
QUINLAN, JOHN THOMAS.....	New York City
RADO, HENRY RUDOLPH.....	Mt. Vernon, N. Y.
RAINES, MORRIS ABEL (candidate for honors).....	New York City
RANDOLPH, WENDELL GOVERS.....	New York City
REEDER, RUDOLPH REX, JR.....	Hastings-on-Hudson, N. Y.
RICE, JULIAN.....	New York City
RICHARDS, JULIUS KAPLAN.....	New York City
RICHARDS, ROWLAND WHELDON.....	New York City
RIGGS, BENJAMIN REATH.....	London, England
ROBB, ARTHUR THOMAS, JR.....	New York City
ROBERTS, GEORGE HENRY.....	Peekskill, N. Y.
ROBERTS, LLEWELYN.....	New York City
ROGERS, HERBERT WESLEY.....	New York City
ROSENSTOCK, FELIX MRTZGER.....	New York City
ROSENZWEIG, MAX.....	New York City
ROTGARD, ISIDORE (candidate for honors).....	New York City
ROTHENBERG, WILLIAM.....	Arlington, N. J.
ROVILLAIN, EUGENE ETIENNE (candidate for honors).....	New York City
ROWAN, RICHARD WILMER.....	Asbury Park, N. J.
RUBIN, HENRY SAMUEL.....	Bayonne, N. J.
RUSS, PHILIP WILLIAM.....	New York City
SALVATORE, PAUL JOHN (candidate for honors).....	New York City
SAMUELS, SAUL SIMON.....	New York City
SAMWORTH, ROBERT PAWLEY.....	Paterson, N. J.
SCHERPICH, EUGENE ARTHUR (candidate for honors).....	New York City
SCHLESINGER, LAURENCE ANTHONY.....	New York City
SCHNEIDER, HERBERT WALLACE.....	New York City
SCHOELER, HERMAN RICHARD.....	New York City
SCHOENZEIT, EMANUEL.....	New York City
SCOFIELD, GLENNI WILLIAM.....	Warren, Pa.
SHANHOLT, HARRY.....	New York City
SHEA, EDWARD HENRY (candidate for honors).....	New York City
SHIBLEY, MAURICE.....	New York City
SIEGLER, JULIUS.....	Jersey City, N. J.
SILVERSTEIN, ABRAHAM.....	New York City
SIMONDS, FRANCIS MAY, JR.....	New York City
SMITH, ALONZO D'GRATE.....	New York City
SMITH, KENNETH.....	Los Angeles, Cal.
STEINER, LEO.....	Newark, N. J.
STEPHENSON, ROBERT ABRAM.....	New York City
STERN, LEO (candidate for honors).....	New York City
SULZBERGER, SHERIDAN ULLMANN.....	New York City
TASHOF, JACOB JULIAN.....	New York City
TAYLOR, WALLACE DOYLE.....	New Rochelle, N. Y.
TELSON, DAVID.....	New York City
THACHER, CLIFTON OTIS.....	North Dartmouth, Mass.
THATCHER, ASHBY SNOW.....	Salt Lake City, Utah
THOMPSON, RAY WALDO.....	Tuckahoe, N. Y.
TICHENOR, CLIFFORD LEIGH.....	Mt. Vernon, N. Y.
TIFFT, CLARENCE FRANCIS.....	New York City
TRISCHETT, S. SEYMOUR.....	New York City

TUREK, HENRY THEODORE.....	New York City
TURETS, DAVID.....	Pittsburgh, Pa.
UPDIKE, GODFREY ERNST.....	New York City
VALENTINE, HERBERT.....	New York City
VOM SAAL, RUDOLF ERNST.....	New York City
WEAVER, JOHN HOWARD (candidate for honors).....	New York City
WEED, LOWREY ALBERT.....	Hillsdale, N. J.
WEINTRAUB, SYDNEY.....	New York City
WEISSENBORN, HENRY CHRISTIAN.....	New York City
WILLIAMS, GARDNER (candidate for honors).....	New York City
WISE, RAYMOND LEO.....	New York City
WOLFF, MARCUS SALBERG.....	New York City
WOOD, FRANCIS APPLETON.....	New York City
WOOD, PAUL MEYER.....	New York City
ZAHN, GEORGE WALTER.....	New York City
ZIMMER, DANIEL BECKER.....	New York City

[211]

FRESHMEN—CLASS OF 1917

ACOSTA, JULIAN ALBERT, JR.....	New York City
ALBRECHT, IRA WERNER.....	New York City
ALLEN, DOUGLAS HEDDEN.....	New York City
ALLEN, WALTER CLARKE.....	Quincy, Mass.
ALLISON, STANTON WILLETTS.....	New York City
ASTRACHAN, MORRIS.....	New York City
AUSLANDER, JOSEPH.....	New York City
BACON, ROSS MATTIS.....	Mt. Vernon, N. Y.
BALLIN, DAVID BERNARD.....	New York City
BARBARITO, WILLIAM NICHOLAS.....	Danbury, Conn.
BARNES, FRANK E.....	Pownal, Vt.
BARR, DAVID SIDNEY.....	New York City
BARSKY, EDWARD.....	New York City
BARSKY, GEORGE.....	New York City
BARTH, AUGUST STEPHAN.....	New York City
BEALS, JOHN DAVID, JR.....	New Rochelle, N. Y.
BELLINGER, FREDERIC COUDERT.....	New York City
BERNSTEIN, MEYER.....	New York City
BERZON, HAROLD.....	New Rochelle, N. Y.
BIERSCHENK, WILLIAM.....	New York City
BLUMENTHAL, MORTON HARRY.....	New York City
BOWLES, JOSEPH P.....	New York City
BRADY, FRANCIS LLOYD.....	New York City
BREAKSTONE, RAPHAEL.....	New York City
BRENNECKE, ERNEST.....	New York City
BRICKNER, RICHARD MAX.....	New York City
BRIEANT, CHARLES LA MONTE.....	Ossining, N. Y.
BROUS, LEONARD.....	New York City
BROWNING, GEORGE EMMETT, JR.....	Ogden, Utah
BRYAN, JOSEPH ALPHIN.....	New York City
BUCHMAN, LOUIS.....	New York City
BUERMAYER, HERBERT ARTHUR.....	New York City
BURGHARD, FREDERICK JOHN.....	New York City
BUSCH, IRVING.....	New York City
BUSCH, LAWRENCE CARL VICTOR.....	Elizabeth, N. J.
CHRISTMANN, LUDWIG JACOB.....	New York City

COCHRAN, DAVID AUSTEN.....	New York City
COHEN, AARON.....	New York City
COHN, MILTON.....	New York City
CONTI, ATTILIO CARLO LUIGI, JR.....	Yonkers, N. Y.
COOMBS, LE ROY.....	East Orange, N. J.
CRAMER, RALPH S.....	Passaic, N. J.
CRISWELL, CLINTON F.....	Dansville, N. Y.
CRONK, HARVEY MORTON.....	New York City
CROOK, JAMES BEVERLY.....	New York City
CUDLIPP, JEROME MOORE.....	New York City
CULMAN, OTTO.....	New York City
CURT, WALTER E (candidate for honors).....	New York City
CUSHING, HARRY COOKE, 3d.....	New York City
DALY, RAYMOND JOSEPH.....	New York City
DANIELS, CHARLES WELLMAN.....	New York City
DAVIDSON, HAROLD BERTRAM.....	New York City
DAVIS, WALTER ELBERT.....	Millers Place, N. Y.
DAY, CHARLES STEPHEN, JR.....	New York City
DAY, SELBY JAMES.....	New York City
De GRAFF, BARTHOLOMEW ROBINS.....	New York City
DELEHANTY, THORNTON.....	Pelham, N. Y.
DENISON, ARCHIBALD CAMPBELL.....	New York City
DEWAR, WILLIAM.....	New York City
DICKIE, GEORGE WILLARD.....	Morristown, N. J.
DINSMORE, ALVIN LENHART.....	Lauraville, Ind.
DONOVAN, HARRY W.....	Kingston, N. Y.
DORNES, JOSEPH ANTHONY.....	New York City
DREYER, SAMUEL.....	New York City
DUPONT, ANDRÉ.....	New York City
DVORKIN, MEYER.....	New York City
ECKLEY, HAROLD JAMES.....	New Rochelle, N. Y.
ELMER, PHILIP REES.....	New York City
ELY, GEORGE WILLIAM, 2d.....	New York City
EMMERICH, WILLIAM.....	New York City
ERICSSON, ERIC ALFRED, JR.....	Port Chester, N. Y.
EVERSON, ROBERT KENNETH.....	New York City
FAIRCHILD, HOXIE NEALE.....	New York City
FERELEE, SAMUEL HARRELL.....	Norfolk, Va.
FICKEN, JAMES FRANKLYN.....	Highland Falls, N. Y.
FINKLE, OSCAR GEORGE.....	Bolton Landing, N. Y.
FINKLE, PHILIP.....	New York City
FISHER, HENRY JACOB.....	New York City
FOX, DONALD ROSSITER.....	New York City
FURIA, JOHN JOSEPH.....	New York City
GARDNER-STRICKLAND, HAROLD ALBRO.....	Port Washington, N. Y.
GARFUNKEL, LOUIS.....	New York City
GARMAN, ALLEN DON.....	Washington, D. C.
GAYNOR, CLARENCE ALFRED FRANCIS.....	New York City
GEIB, AMOS PHILIP.....	Manheim, Pa.
GEIGER, WALTER JOSEPH.....	Sayville, N. Y.
GELBHAUS, FREDERICK H.....	New York City
GERATY, THOMAS JOSEPH.....	New York City
GIBSON, A. WALLACE.....	New York City
GILL, DALIP SINGH.....	India
GILMORE, SAMUEL LOUIS.....	New York City

GINZBURG, DAVID.....	New York City
GLENNE, ALEXANDER COWLES.....	Newark, N. J.
GOERLICH, ARTHUR C.....	New York City
GOLDMAN, MAURICE.....	New York City
GOLDSTEIN, MAX MICHAEL.....	New York City
GOLEMBE, HARRY.....	New York City
GOLLIKE, WILLIAM ANTHONY.....	Jersey City, N. J.
GOODMAN, DAVID.....	New York City
GORDON, KENNETH JAMES.....	Weehawken, N. J.
GORMAN, WILLIAM FRANCIS.....	Nutley, N. J.
GOULD, GEORGE JAY, JR.....	New York City
GRIFFEN, JOHN D. M.....	Port Chester, N. Y.
GROPPER, MILTON HERBERT.....	New York City
HAIGHT, VINCENT WYMAND.....	Montrose, N. Y.
HALL, LAZARUS.....	New York City
HALTER, CLARENCE ROBERT.....	New York City
HAMMARSTROM, CHARLES ARCHIBALD.....	New York City
HANDIN, LOUIS.....	New York City
HANEMANN, HENRY WILLIAM, JR.....	New York City
HARRISON, JAMES RENWICK.....	McKeesport, Pa.
HASKINS, BAYARD TREMAIN.....	Wellsville, N. Y.
HASSAN, ALI A., JR.....	New York City
HEALY, JEFFERSON.....	New York City
HELMS, HAROLD HOTCHKISS.....	Randolph, N. Y.
HENDERSON, FRANCIS TRACY.....	New York City
HERMAN, HARRY.....	New York City
HERMAN, IRVING.....	New York City
HERSTEIN, KARL MARX.....	New York City
HEYDECKER, CREAGH MITCHELL.....	Mt. Vernon, N. Y.
HICKEY, THOMAS EUGENE.....	Ellicottville, N. Y.
HILBORN, DUDLEY DAVID.....	New York City
HILLDRING, JOHN HENRY.....	New Rochelle, N. Y.
HILLMAN, WILLIAM.....	Ellenville, N. Y.
HIRSCHFIELD, IRA WILSON.....	New York City
HOMLET, HARRY.....	Canton, China
HOOVEN, WILBUR THOMAS, JR.....	Tenafly, N. J.
HOWE, ROBERT WOOD.....	New York City
HUGHES, WILLIAM MORRIS, JR.....	Albany, N. Y.
INGERSOLL, WALTER RAYMOND.....	Rhinebeck, N. Y.
ISSELHARDT, LOUIS ADAM.....	New York City
JEANNY, SAMUEL MACPHERSON, JR.....	New York City
JETTER, WILLIAM FRANCIS.....	New York City
JEWELL, ELLIS WAYNE.....	Utica, Ohio
JIMENIS, EDWIN A.....	New York City
JOHANSON, FRANCIS OSCAR.....	New York City
JONES, CHARLES REED.....	New York City
KAHN, HENRY.....	New York City
KANE, RALPH FREEBORN.....	New York City
KASHDEN, HARRY A.....	New York City
KASSEL, MORRIS.....	New York City
KATES, GEORGE NORBERT.....	New York City
KATZ, HYMAN ABRAHAM.....	New York City
KENNEDY, DANIEL EDWIN.....	New York City
KER, DAVID.....	New York City
KERBY, PHILIP CLYDE.....	New York City

REGISTER OF STUDENTS

211

KERN, MAX.....	New York City
KIERNAN, EUGENE.....	New York City
KILBURN, HENRY THOMAS.....	New York City
KILROE, JOHN CHARLES.....	Honesdale, Pa.
KIMBALL, LINDSLEY FISKE.....	New York City
KLEIN, SIDNEY.....	New York City
KLINGENSTEIN, PERCY.....	New York City
KNOTE, FREDERICK CORNING.....	New York City
KNOX, JOHN PAIGE.....	New York City
KOREUS, EDWIN FREDERICK.....	New York City
KORNSAND, EDMOND S.....	New York City
KRAUS, FREDERICK.....	New York City
KURTZ, JACOB.....	Manchester, N. H.
LANGDON, ARTHUR NORNINGTON.....	New York City
LANGTHORN, JACOB STINMAN, JR.....	New York City
LEDING, ROBERT HERMAN.....	Ridgewood, N. J.
LEE, JOHN CHARLES, JR.....	New York City
LEEDE, HORST EDWARD HERMANN.....	New York City
LEMELSON, JULIUS.....	New York City
LEVIE, MORTIMER JOSEPH.....	New York City
LEVIN, HENRY.....	Yonkers, N. Y.
LEVIN, JASPER JOSEPH.....	New York City
LEVINE, JACOB.....	New York City
LEVY, MILTON FOWLER.....	New York City
LEWIS, KENNETH MARK.....	Short Hills, N. J.
LICCIONE, WILLIAM TITUS MARIUS.....	Mt. Vernon, N. Y.
LICHTENSTEIN, ANSON.....	New York City
LIESENFELD, SUSSIE.....	New York City
LITTAUER, EMANUEL VICTOR.....	New York City
LIU, TIEN TOH.....	Changsha, China
LOGAN, CHARLES THOMAS, JR.....	Palisade, N. J.
LORENZ, ROBERT HOWARD.....	New York City
MCCREADY, JOHN DUDLEY.....	New York City
MCÉVOY, ARTHUR FRANCIS.....	Hudson, N. Y.
McHARGUE, WILLARD RAYMOND.....	Hall City, Fla.
McKENNA, WALTER WILLIAM.....	New York City
McKEON, JOHN WHITTEN.....	New York City
McKINLESS, RAYMOND.....	Yonkers, N. Y.
MACKENZIE, RICHARD.....	Dobbs Ferry, N. Y.
MACNAIR, IRA PRESTON.....	New York City
MANGES, HORACE SAMUEL.....	New York City
MANKIEWICZ, HERMAN JACOB.....	New York City
MANSBACH, PERCY PURCELL.....	New York City
MARGULIES, IRVING.....	New York City
MAURICE, BENJAMIN VAN DYKE.....	Mamaroneck, N. Y.
MAYER, ALBERT.....	New York City
MAYER, ALBERT KENNETH.....	New York City
MEBANE, DONALD CUMMINS.....	Wilkes-Barre, Pa.
MESSING, ARTHUR JOSEPH.....	New York City
MEYER, DAVID LEOPOLD.....	New York City
MICHAELIAN, FRANK MICHAEL.....	New York City
MILCH, HENRY.....	New York City
MILLER, HOWARD MILTON, 2d.....	New Rochelle, N. Y.
MILLER, WILLIAM HAROLD, JR.....	New York City
MINSKY, HENRY.....	New York City

MINTURN, THOMAS.....	New York City
MONEYPENNY, NELSON NORTH, JR.....	New York City
MONROE, HENRY CLAY.....	New York City
MONTGOMERY, RICHARD BACON.....	Plainfield, N. J.
MOULTON, RALPH REMBRANDT.....	New York City
MULLEN, ALFRED.....	New York City
MURRAY, CHARLES.....	New York City
MYERS, WAYNE VERNON.....	Rochester, N. Y.
NAHM, HORACE HAMILTON.....	New York City
NEWBURGER, MORTON JOEL.....	New York City
NODINE, EDWIN ROGERS.....	New Rochelle, N. Y.
NOONAN, RAYMOND L.....	New York City
NORTON, TIMOTHY JOSEPH.....	New York City
OBERRENDER, GIRARD FRANKLIN.....	South Orange, N. J.
O'BRIEN, VERNON.....	Terryville, N. Y.
O'BRIEN, WILLIAM LUCIAN.....	Peekskill, N. Y.
ORLIANSKY, ISAAC LOUIS.....	New York City
PADDOCK, ARTHUR KITTREDGE.....	New York City
PADWE, FRANK.....	Jersey City, N. J.
PARK, STEWART JESSE.....	Saranac Lake, N. Y.
PASSARELLI, LUIGI A. (candidate for honors).....	New York City
PAULEY, CHARLES THOMAS.....	Ridgebury, N. Y.
PEPER, FREDERICK JOHN.....	New York City
PEREA, JUAN AUGUSTO.....	Mayaguez, P. R.
PEREA, SALVADOR.....	Mayaguez, P. R.
PERKINS, RAYMOND LAMONT.....	New Rochelle, N. Y.
PERLA, LEO.....	New York City
PETCHTLE, C. BOUCK.....	New York City
PIEL, RUDOLF ALFRED.....	New York City
POHLMANN, HARRY FRANCIS.....	Middletown, N. Y.
PORTER, ELBERT STOTHOFF.....	New York City
POSNER, HERBERT.....	New York City
POTT, RICHARD MONCRIEFF.....	New York City
PROFFITT, CHARLES GEORGE.....	Garnerville, N. Y.
RABINOWITZ, HYMAN REUBEN.....	New York City
RANSOHOFF, NICHOLAS SIG.....	New York City
REAGAN, CHARLES AUSTIN.....	Norfolk, N. Y.
REICHERS, PHILIP STEINGOTTER.....	New York City
RIGGIO, CORRADO.....	New York City
RILEY, GEORGE WASHINGTON.....	New York City
RIVELSON, SAMUEL MORSE.....	New York City
ROBINSON, MEYER S.....	New York City
ROCHE, AUSTIN SUMMERFIELD.....	Hempstead, N. Y.
ROGERS, GEORGE GAILLARD.....	Newark, N. J.
ROSENBERG, JULIAN DELLEVIE.....	New York City
ROTH, PHILIP ARTHUR.....	New York City
ROWLAND, FLOYD HOOKWAY.....	Walden, N. Y.
SACHAROFF, LEO SAMUEL.....	New York City
SANDERS, GILBERT.....	New York City
SAWYER, ALAN FOSTER.....	New York City
SCARDACCIONE, ALEXANDER ANSELM.....	New York City
SCHMITT, ROSWELL LAWRENCE.....	Middletown, N. Y.
SCHULTE, HERBERT AUGUST.....	Newark, N. J.
SCHULZ, ALEXANDER WILLIAM.....	New York City
SCHUSTER, MAX LINCOLN.....	New York City

SCHWANDA, WILLIAM EDWARD.....	New York City
SCHWARTZ, HARRY H.....	New York City
SCHWARZ, HERBERT.....	New York City
SCOFIELD, LAWRENCE STRANAHAN.....	Warren, Pa.
SEE, CHONG SU.....	Hongkong, China
SELDOWITZ, MORTON.....	New York City
SHAPIRO, THOMAS ARTHUR.....	New York City
SHEFFER, EARLE CEYLON.....	Shortsville, N. Y.
SHELDON, BRUCE SMITH.....	New York City
SHEPARD, ROYAL FRANCIS.....	Newark, N. J.
SHIMMON, JOSEPH MALIK.....	Urumia, Persia
SHLEVIN, EDMUND LESTER.....	New York City
SIEGEL, BENJAMIN.....	New York City
SINGER, ISIDOR NATHANIEL.....	New York City
SKARVAN, STANLEY JOSEPH.....	New York City
SLACK, MEYER H.....	Haverstraw, N. Y.
SMITH, EDMUND COE.....	New York City
SMITH, RONALD BRINKERHOFF.....	East Orange, N. J.
SPERLING, ELLIOTT MARK.....	New York City
SPIER, FRANKLIN.....	New York City
SPINGARN, SAMUEL.....	West Hoboken, N. J.
SPRINGER, CLARENCE STEPHEN.....	New York City
SPRINGMEYER, FRANK THEODORE.....	Hoboken, N. J.
STARKE, EMORY POTTER.....	New York City
STERMAN, MAX.....	New York City
STERN, CHARLES HAROLD.....	New York City
STONE, CHAUNCEY WARREN.....	New York City
STONE, STEPHEN GRANT.....	New York City
STROOCK, IRVING SYLVAN.....	New York City
SUCKLEY, ARTHUR RUTSEN LYNCH.....	Rhinebeck-on-Hudson, N. Y.
SYMONDS, ROLAND.....	Port Jervis, N. Y.
SULTZER, C. FREDERICK.....	Yonkers, N. Y.
SUYDAM, JAMES LAMBERT, JR.....	Tarrytown, N. Y.
TABER, JOHN HUTTLESTON.....	New York City
TEALL, HENRY PAULL.....	Bloomfield, N. J.
TODD, KENNETH WILLIAM.....	Dobbs Ferry, N. Y.
TODD, WARWICK HANFORD.....	Dobbs Ferry, N. Y.
TOPALIAN, HAROUTUNE VANES.....	Weehawken, N. J.
TOWNS, EDWARD BARBOUR.....	New York City
TOWNSEND, ALFRED WALTON.....	New York City
TOWNSEND, LONDON McDUFFIE.....	Rae ford, N. C.
TSAI, MO CHUNG.....	Shanghai, China
TUCKER, FRANK LANDALE, JR.....	New York City
VAN DE WATER, STERLING HAWES.....	New York City
VAN NESS, CARL CONDIT.....	Newark, N. J.
VON BERNUTH, ANTON FREDERICK.....	New York City
VON EMBURGH, GEORGE HENRY.....	Arlington, N. J.
VON GOEBEN, CARL AUGUST, JR.....	Montclair, N. J.
WARNER, DANIEL DUDLEY.....	Riverhead, N. Y.
WARSHOW, JOSEPH.....	New York City
WATT, ROBERT WILSON.....	Hamburg, N. J.
WECHSLER, ALBERT LOUIS.....	New York City
WEILER, EDWARD WILLIAM.....	New York City
WEINBERG, FRANK J. C.....	New York City
WEINHANDLER, MILTON.....	New York City

WEITZMAN, HARRIS DAVID.....	New York City
WELDING, JAMES RUSSELL.....	White Plains, N. Y.
WELTON, WALTER FREDERICK.....	New York City
WERTHEIMER, JEROME SAMUEL.....	New York City
WIENER, MERVYN GERALD (candidate for honors).....	Newark, N. J.
WIGGINS, THEODORE DU BOIS.....	Freeport, N. Y.
WILLIAMS, SPENCER CHARLES.....	Buffalo, N. Y.
WILLIS, HAROLD SATTERLEE.....	New York City
WORMSER, RENÉ ALBERT.....	New York City
WURZBACH, FREDERICK ALFRED.....	New York City
YERKES, HARRY A., JR.....	New York City
ZEIGER, SAMUEL.....	New York City
ZENT, EDWARD GEORGE, JR.....	Williamsville, N. Y.
ZOELLNER, HERBERT WILLIAM (candidate for honors).....	Deadwood, S. Dakota

[325]

The following students are taking the first year of the course in Journalism, and are subject to the educational control of the Faculty of Columbia College:

BATES, HERMAN MALCOLM.....	East Weymouth, Mass.
BLACK, THOMAS EARL.....	Greenfield, Ind.
DANAIIY, JAMES WILLIAM.....	Buffalo, N. Y.
DIETZ, MILTON.....	New York City
EDMAN, IRWIN.....	New York City
ESKEY, CHESTER LEONARD.....	Wheeling, W. Va.
FRISBIE, DANIEL MANNING.....	Middleburg, N. Y.
GOLDBERG, BENJAMIN.....	New York City
HEYMAN, BENJAMIN.....	Danbury, Conn.
HUBBELL, REGINALD WORTH.....	Warrenton, Va.
KELLY, WILLIAM JOSEPH.....	Lexington, Ky.
LANDAU, MORTON SAMUEL.....	Pittsburgh, Pa.
MANN, LOUIS RICHMAN.....	Cobleskill, N. Y.
MARSHALL, JAMES.....	New York City
OPPENHEIMER, FRED SHEYMOUR.....	New York City
PITTS, FREDERIC GARDNER.....	Warwick, N. Y.
ROBB, KENNETH EVERTS.....	New York City
ROBERTS, GEORGE BASSETT.....	Washington, D. C.
ROBINSON, GEORGE.....	New York City
ROTHMAN, ABRAHAM.....	Centerville Station, N. Y.
RUKEYSER, MERRYLE STANLEY.....	New York City
RYSKIND, MORRIS.....	New York City
SCULLY, FRANCIS JOSEPH.....	New York City
SEADLER, SILAS FRANK.....	New York City
SMITH, PALMER.....	Fairbury, Nebr.
SMITH, RALPH BEVIN.....	Poughkeepsie, N. Y.
SPIERO, GERALD B.....	New York City
SOKOLSKY, GEORGE EPHRAIM.....	New York City
STERN, DONALD MCGREGOR.....	New York City
TEMPLE, ALAN HARRISON.....	Collingswood, N. J.
VAN VALKENBURGH, DANIEL ETHELBERT.....	Bethel, Conn.

[31]

NON-MATRICULATED STUDENTS

BALDWIN, JOHN BRAITHWAITE.....	New York City
BREZ, SELIG COLMAN.....	Washington, D. C.
CATTELL, MCKEEN.....	Garrison-on-Hudson, N. Y.
DODWORTH, OLEAN HARVEY THOMAS.....	New York City

DONLIN, PHILIP EUGENE.....	New York City
GOODMAN, SAMUEL.....	New York City
GRACE, MORGAN HATTON.....	Great Neck, N. Y.
HARA, ZENICHIRO.....	Yokohama, Japan
HOLT, GUY CARLETON.....	New York City
KILPATRICK, GEORGE.....	Memphis, Tenn.
KNOX, WILLIAM JOHN, JR.....	New York City
KOCH, PAUL.....	Weehawken H'ts, N. J.
KÖSTER, AXEL ERNST HANS.....	New York City
NOLAN, JOHN LOUIS LEO.....	New York City
NOYES, EUGENE J.....	New York City
PLEUS, HENRY.....	New York City
PORTER, RUSSELL BRYAN.....	Bridgeport, Conn.
REYNOLDS, JOHN BATESON.....	New York City
RITTER, LAWRENCE JOHN.....	New York City
SNOW, ERASTUS.....	New York City
TOLMAN, G. LEIGHTON.....	New York City
WHITE, ARTHUR KENT.....	Bound Brook, N. J.
WRIGHT, WILLIAM SCOVILLE.....	New York City

[23]

SUMMARY

Candidates for Degrees:

Seniors.....	135
Juniors.....	147
Sophomores.....	211
Freshmen.....	325
First-year Journalists.....	31
Non-matriculates.....	23

 Total..... 872

Candidates for a Degree with Honors..... 48

SCHOOL OF LAW

Faculty President BUTLER
Dean STONE

Professors ABBOTT, BURDICK, CANFIELD,¹ GOODNOW, GUTHRIE, KIRCHWEY,¹ MOORE (J. B.), POWELL, REYNOLDS, SMITH (Munroe), REDFIELD (*Secretary*), TERRY.

Mr. DORR
Mr. ARNOLD

Mr. WHITAKER
Judge HOLT
Mr. GIFFORD

Delegates to the University Council, see page 4.

Purpose The design of the School of Law is to afford a thorough, practical, and scientific education in the principles of: The common and statute law of the United States: The English and American system of equity jurisdiction: The Public law of the United States and Europe: The Roman law—ancient and modern: Theoretical and comparative jurisprudence. Opportunity is given through short special courses (see page 126) for specializing in particular fields.

Admission All applicants for admission must present satisfactory evidence of good moral character.

Admission to the School of Law as a matriculated student will be upon one of the following three conditions:

(a) Graduation from an approved college or scientific school of collegiate rank.

(b) The successful completion of three years of undergraduate study in an approved college or scientific school, which course of study must have included satisfactory courses in Economics and in English and American History.

(c) In lieu of either of the above, the presentation of satisfactory evidence of preliminary training obtained in higher institutions of learning, in this country or abroad, equivalent to that prescribed in either of the foregoing paragraphs (a) or (b).

For detailed description of courses see page 125.

Advanced Standing Students complying with the above requirements for admission to the School, who have, in addition, successfully pursued the study of law for at least a year in an approved law school on examination giving satis-

¹ Absent on leave 1913-14.

factory evidence of proficiency in the studies of the final year, may be admitted to advanced standing as members of the second-year class. Examinations are usually required in the more important first-year subjects.

No one will be admitted to advanced standing beyond the second year except by special vote of the Faculty.

The examinations for advanced standing cover all the work previously done by the class to which admission is sought, and are held at the end of the half-year in which the respective subjects are given and during the week preceding the opening of the fall term. Examinations may be dispensed with and credit given on certificate for courses satisfactorily completed in an approved law school in cases where such courses are deemed by the Faculty equivalent to the corresponding courses given in this School.

Duly qualified persons not candidates for the degree of LL.B. may be admitted as non-matriculated students on presenting such evidence as the Faculty may require of their exceptional fitness to undertake with advantage the study of law. Applicants must usually have two years or more of College or Law School work to their credit and must be at least twenty-one years of age.

Non-Matriculants

Written examinations are held at the end of each half-year on the subjects completed during that half-year and on the subjects of the first and second years during the week preceding the opening of the academic year.

Examinations

All students, whether matriculated or non-matriculated, must, unless excused by the Dean, present themselves for examination in all the subjects for which they are registered at the first examination held therein, and, in case of excuse from any examination, must take the next examination offered in such subject. *A student permitted to take a deferred examination must pay a fee of five dollars as for a deficiency examination.* Students are not permitted to take examinations in courses for which they are not regularly registered.

At all stated examinations the standing of students will be indicated by the letters A, B, C, D, and F, representing *Excellent, Good, Fair, Poor, and Failure*, respectively. These grades will be part of the record of the students in the office of the Registrar, and will be reported to them as soon as possible after each examination.

No student will be admitted to the second-year class who is deficient in more than four hours of the work of the first year. No student will be admitted to the third-year class who is deficient in any subject of the first year, or in more than one full course or in more than two half-year courses of the second year.

No student failing in any subject will be permitted to take a second examination therein without having again taken the course in which

such failure occurred, nor will any student failing a second time in any subject be allowed to continue in the School except by special vote of the Faculty.

No special examinations are given.

**Bachelor of
Laws**

The required work for the degree of Bachelor of Laws consists of 76 points, each point representing the satisfactory completion of work requiring attendance one hour a week for one half-year. This requirement is usually met by a program of fourteen hours per week in the first year and of twelve hours per week through the second and third years.

No student doing full work may take less than twelve nor more than fourteen hours per week in any half-year.

Students registered in the Law School will, on approval of the Faculty, be credited with law courses successfully completed by them in the Summer Session of the University.

Not more than one full course representing four points nor more than two half-year courses representing three points each in which the student receives a mark of D may be counted toward a degree in any one year.

No student failing in any subject on the final examination of his class will be admitted to the degree unless within two years of such failure he presents himself for re-examination and receives a mark of C, at least, therein.

Non-matriculated students who have been members of the School for at least two years may become eligible for the degree if they shall have attained an average of B in all the work prescribed therefor.

Master of Laws (see page 192)

**Higher
Degrees**

The degrees of Master of Arts and Doctor of Philosophy are also awarded for work done in part under the Faculty of Law (see page 186).

Scholarships and Prizes (see page 435)

Fees (see page 47)

Library

The Law Library has been greatly extended and improved, and now consists of upwards of 50,000 volumes, which have been carefully selected to meet the wants of students. It contains practically every reported decision of the American, English and British Colonial courts, and good working collections of American and foreign statute law, Roman and modern civil law, and jurisprudence. Lectures on legal bibliography and the use of law books are given by the Law Librarian (see also page 54).

PROGRAM OF STUDIES

PROGRAM OF STUDIES

FIRST YEAR		SECOND YEAR		THIRD YEAR	
SUBJECT	Hrs.	SUBJECT	Hrs.	SUBJECT	Hrs.
<i>1st Half</i> Contracts Criminal Law American Constitutional Law Elements of Law Torts Property I	4 3 3 1 2 2 2	<i>1st Half</i> Agency Domestic Relations Equity I †Insurance Pleading and Practice II Real and Personal Prop. II Sales of Personal Prop. Amer. Const. Law II Institutes of Roman Law	3 2 2 3 2 2 2 2 2 3	<i>1st Half</i> Corporations Equity II Evidence Pleading and Practice III Real and Personal Prop. III Conflict of Laws International Law Law of Officers Law of Taxation	2 3 3 4 3 3 2 2 2 2
<i>2nd Half</i> Contracts Pleading and Practice I Real and Personal Prop. I Torts	4 3 4 4 2	<i>2nd Half</i> Carriers *Bankruptcy and Insolv. Negotiable Paper Pleading II Quasi-Contracts Real and Personal Prop. II Sales of Personal Prop. Trusts American Const. Law II	3 3 3 2 3 2 2 2 2	<i>2nd Half</i> Corporations Mortgages Partnership Suretyship N. Y. Trusts Wills and Administration International Law Municipal Corporations	2 3 3 3 2 2 3 2 2

† Given alternate years only; omitted 1915-1916.

* Given alternate years only; omitted 1914-1915.

Special Courses: Federal Jurisdiction. Patent Law. Law of Mining and Irrigation. Trial Evidence. Readings in the Digest of Justinian. Modern Civil Law. History of European Law.

REGISTER OF STUDENTS

School of Law

THIRD YEAR—CLASS OF 1914

AHEARN, THOMAS J., JR., A.B. 1912.....	New York City
AHEARN, WILLIAM DANIEL, A.B. 1912, A.M. 1913.....	New York City
ALLEY, AYFORD W., A.B. Washington & Lee 1910.....	Muskogee, Okla.
ANDERSON, FOREST MILTON, B.S. Ft. Worth 1911.....	Ft. Worth, Texas
ANGULO, CHARLES, A.B. Georgetown 1911.....	New York City
BANKS, JAMES LENOX, JR., A.B. Yale 1911.....	New York City
BARNUM, RAY FOSTER, A.B. 1910.....	White Plains, N. Y.
BATTEY, LOUIS LE GARDE, A.B. Sacred Heart 1911.....	Augusta, Ga.
BERNSTEIN, BENJAMIN, A.B. 1912.....	New York City
BERNSTEIN, DAVID RAY, A.M. 1913, B.S. C. C. N. Y. 1912.....	New York City
BRENNER, ARTHUR BEARNS, A.B. 1912.....	New York City
BROOKS, GEORGE BRUCE, A.B. Williams 1911.....	New York City
BROWN, HARRY H., A.B. Georgetown 1911.....	New York City
BROWN, JOSEPH EVERINGHAM, A.B. William Jewell 1911.....	Kansas City, Mo.
BUDNER, HAROLD SYDNEY, A.B. C. C. N. Y. 1911.....	New York City
CALAHAN, HAROLD AUGUSTIN, A.B. 1912.....	New York City
CALHOUN, ROY EMMETT, A.B. Mercer 1911.....	Eastman, Ga.
CAPLOW, SAMUEL NATHANIEL, B.S. 1911.....	New York City
CLARK, KENNETH FRANCIS, A.B. Dartmouth 1911.....	New York City
CLINCH, WATT WILLIS, B.L. California 1911.....	Grass Valley, Calif.
CLYNE, HERBERT HOMER, B.S. 1912.....	New York City
COLCORD, ALAN HUSTED, A.B. Cornell 1912.....	New York City
CORWIN, HILARY, B.S. 1912.....	Huntington, N. Y.
DEFRIECE, FRANK WILLIAM, A.M. 1913, A.B. Emory & Henry 1903.....	Meadowview, Va.
DRAKE, WILBUR ARTHUR, A.B. Leland Stanford 1905.....	Plainfield, N. J.
ELDER, ROBERT DULL, A.M. 1913, A.B. Princeton 1911.....	Leadville, Colo.
FALES, DECOURSEY, A.B. Harvard 1911.....	New York City
FAY, MARTIN J., B.S. Fordham 1908.....	Yonkers, N. Y.
FEE, JAMES ALGER, A.B. Whitman 1910.....	Pendleton, Oregon
FEINSOD, ELIAS, B.S. 1912.....	New York City
FOULK, THOMAS BOND, B.S. West Virginia 1908.....	Morgantown, W. Va.
FROST, BENSON RALPH, A.B. Brown 1908.....	Rhinebeck, N. Y.
GEORGE, AUSTIN LEE, A.B. Washington & Jefferson 1909, A.M. 1910, Saegertown, Pa.	
GERSTEIN, SAMUEL RALPH, B.S. 1911.....	New York City
GOETZ, GEORGE GUSTAV, A.B. Cornell 1912.....	Milwaukee, Wis.
GOODHUE, FISHER, A.B. Yale 1911.....	New York City
HALL, HENRY T., A.B. Williams 1911.....	East Orange, N. J.
HEALY, HAROLD HARRIS, A.B. Colorado 1911.....	Denver, Colo.
HILL, JOHN WARREN, A.B. 1911.....	New York City
HIRSCH, MORSE SABLE, A.M. 1913, A.B. C. C. N. Y. 1911.....	New York City
HOBBS, RICHARD J. M., A.B. Guilford 1909.....	Guilford College, N. C.
HOYT, C. C., A.B. Marietta 1911.....	Marietta, Ohio.
ISELL, ORRIN CASTLE, A.B. 1912.....	New York City
JACKSON, SAMUEL L., A.B. 1912.....	New York City
JACQUES, HENRI C., A.B. 1912.....	New York City

JEWELL, RALPH HERBERT, A.B. Yale 1911.....	Washington, D. C.
JEWELL, THOMAS BRONSON, Jr., A.B. Oberlin 1910.....	Washington, D. C.
KAUFMAN, JOE ARJE, A.B. Cornell 1912.....	Great Falls, Mont.
KEEN, EDWIN LE ROY, Ph.B. Dickinson 1907.....	Wiconisco, Pa.
KENT, STEPHEN GIRARD, A.B. Williams 1911.....	Summit, N. J.
KENYON, THEODORE STANWOOD, A.B. Harvard 1911.....	New York City
KEOUGH, AUSTIN CAMPBELL, A.B. Dartmouth 1911.....	New York City
KOHLER, FREDERIC DUDLEY, A.B. Yale 1912.....	New York City
KUNZMAN, IRVING, B.S. 1912.....	Plainfield, N. J.
LANDIS, WILLIAM B., Ph.B. Dickinson 1911.....	Rock Glen, Pa.
LIVERY, PAUL EDWARD.....	Lavery, Pa.
LEVINSON, SAMUEL J., A.B. 1911.....	New York City
LEVY, MORRIS, A.B. C. C. N. Y. 1911.....	New York City
LEWIS, READ, A.B. Wisconsin 1909.....	Oak Park, Ill.
LINDLEY, ADELBERT H., Ph.B. Alma 1911.....	Lupton, Mich.
LOUIS, SIDNEY M., A.B. 1913.....	New York City
LUPTON, RUSSELL E., A.B. Yale 1912.....	Mattituck, N. Y.
MACKEY, RICHARD J., A.B. 1912.....	Jersey City, N. J.
MANICE, WILLIAM DE FOREST, A.B. Yale 1911.....	New York City
MARCELLUS, BYRNE CAMPBELL, A.B. Nebraska 1911.....	Crete, Neb.
MARCUS, BERNARD KENT, A.B. 1911.....	New York City
MARKS, ALEXANDER DRUMMOND, A.B. Yale 1911.....	New York City
MARTIN, ANDREW PENN, A.B. Ohio Wesleyan 1910.....	Wilmington, Ohio
MATTESON, LEONARD JEROME, A.M. 1912, A.B. Colgate 1911.....	Mt. Vernon, N. Y.
MEYER, CHARLES HARRISON, A.B. 1912, A.M. 1913.....	New York City
MINSKY, HERBERT KAY, A.B. 1912.....	New York City
MORRILL, RUSSELL DE WITT, A.B. Michigan 1912.....	Big Rapids, Mich.
MORRISON, ROBERT H., A.B. Wabash 1911.....	Frankfort, Ind.
MULQUEEN, JOSEPH FRANCIS, JR., A.B. St. Francis Xavier 1910....	New York City
MULLEN, JOHN AUGUSTINE, B.S. 1911.....	New York City
NORDLINGER, HENRY HAROLD, A.B. 1913.....	New York City
O'BRIEN, D. CHARLES, A.B. Syracuse 1912.....	Baldwinsville, N. Y.
PALLEY, DAVID M., A.B. Cornell 1910.....	New York City
PALMER, ELWELL, Ph.B. Yale 1910.....	New York City
PEARLE, CHARLES, A.B. 1913.....	New York City
PHILLIPS, RICHARD HENRY, A.B. Yale 1912.....	Hartford, Conn.
PHILSON, BEN, B.S. Gettysburg 1909.....	Berlin, Pa.
PITTS, ALFRED LEIGH, B.S. 1912.....	New York City
PORTER, FITZ JOHN, A.B. 1912.....	New York City
POWELL, RICHARD ROY, A.M. 1913, A.B. Rochester 1911.....	Rochester, N. Y.
PYNE, WARNER CHARLES, B.S. 1912.....	New York City
RAPP, STEPHEN KAUFMAN, A.B. C. C. N. Y. 1911.....	New York City
REICH, LORENZ, JR., A.B. C. C. N. Y. 1911.....	New York City
RIEGEL, GUY HUGHES, A.B. 1912.....	Lebanon, Pa.
ROTHENBERG, BENJAMIN, A.B. 1912.....	New York City
RYDER, ROBERT CHILD, A.B. Middlebury 1910.....	Vergennes, Vt.
SAMUELS, SUMNER LAWRENCE, A.B. C. C. N. Y. 1911.....	New York City
SAXE, WILLIAM VOGEL, A.B. 1912.....	New York City
SCHNACKE, FRANCIS DEAN, A.B. Kansas 1911, A.M. 1912.....	Topeka, Kansas
SELIG, SOLOMON, B.S. 1912.....	New York City
SELIGMAN, EUSTACE, A.B. Amherst 1910.....	New York City
SHANDS, JOSEPH WALTER, A.B. Florida 1911.....	Gainesville, Fla.
SHREWSBURY, WILLIAM ERNEST, A.B. 1912.....	New York City
SIEMON, WILLIAM STANLEY, A.B. 1912.....	Wilksburg, Pa.
SILVERSTEIN, ROBERT, A.B. Cornell 1912.....	Scranton, Pa.

SKIDMORE, LEMUEL, JR., A.B. Princeton 1911.....	Summit, N. J.
SLATER, ALEXANDER, A.B. 1912.....	New York City
SMITH, AUGUSTUS C., JR., A.B. 1912.....	Babylon, N. Y.
SNYDER, DAVID EARL, A.B. Cornell 1912.....	Herkimer, N. Y.
STEFFENSEN, KEARNEY KROGH, A.M. 1912, A.B. Utah 1911.....	Salt Lake City, Utah
SWAIM, JOHN CARLISLE, A.B. Vanderbilt 1911, A.M. 1913.....	Gleason, Tenn.
SWAIN, DAVID WHITON, A.B. Dartmouth 1911.....	New York City
SWAN, CLINTON COMBES, A.B. Williams 1911.....	New York City
THOMSON, CHARLES E., M.D. Bellevue Medical, 1892.....	Scranton, Pa.
THURLOW, LEWIS KELMOND, JR., A.B. 1912.....	New York City
TISHMAN, LOUIS, B.S. 1913.....	New York City
TRIMBLE, RUFUS JAMES, A.B. 1912.....	New York City
TROUTMAN, ROBERT B., A.B. Georgia 1911.....	Atlanta, Ga.
TWOMBLY, EDWARD BANCROFT, A.B. Yale 1912.....	Summit, N. J.
UNGERER, HEIBY WETLING, A.B. Hobart 1911.....	Lyons, N. Y.
VREDENBURGH, EUGENE HARRAMOND, A.B. Princeton 1911.....	New York City
WATSON, THOMAS HENDERSON, JR., A.B. 1912, A.M. 1913.....	New York City
WEIS, WALTER MOSES, A.B. 1911, A.M. 1912.....	New York City
WEST, JOHNSON EDWIN.....	Bellefontaine, Ohio
WHITE, CLARENCE R., Ph.B., Vermont 1911.....	Burlington, Vt.
WILENSKY, MAX H., A.B. Pennsylvania 1907.....	Atlanta, Ga.
WILLARD, CHARLES BUNNELL, A.B. Hamilton 1911.....	New York City
WILLINGHAM, JAMES C., A.M. 1913, A.B. Missouri Valley 1909.....	Hobart, Okla.
WILLO, JOHN A., A.B. Georgetown 1912.....	Youngstown, Ohio
WINANT, CLINTON DARLINGTON, Litt.B. Princeton 1911.....	New York City
YATES, JAMES ATWOOD.....	Jacksonville, Fla.
YOUNG, JOHN WALLACE, A.B. Yale 1912.....	Montrose, Pa.
YOUNG, RICHARD W., JR., A.B. Utah 1909.....	Salt Lake City, Utah
YOUNGER, DAVID H., B.S. 1912.....	Newark, N. J.

[129]

SECOND YEAR—CLASS OF 1915

ABRAMOWITZ, WILLIAM HYMAN, A.B. Washington & Lee 1912.....	Tampa, Fla.
AMORY, COPLEY, JR., A.B. Harvard 1912.....	Walpole, N. H.
ASSELIN, DONATUS JOSEPH, A.B. Marquette 1911.....	Calumet, Mich.
ATKINSON, WALTER EDGAR, A.B. N. Y. Univ. 1911.....	New York City
BAAR, EMIL N., A.B. 1913.....	New York City
BAINTON, WILLIAM LEWIS, B.S. 1912.....	New York City
BARKER, FRANK PENDLETON, A.B. North Carolina 1912.....	Pembroke, Ky.
BAXTER, HAROLD, E.M. 1906.....	New York City
BEER, THOMAS, A.B. Yale 1911.....	Yonkers, N. Y.
BERK, WILLIAM LEONARD, A.B. 1913.....	New York City
BIRNBAUM, ALEXANDER MORTIMER, A.B. C. C. N. Y. 1912.....	New York City
BLYTHE, FREDERICK R., A.B. Iowa 1913.....	Williamsburg, Ia.
BLYTHE, WILLIAM HORACE, A.B. Miami 1911.....	Springfield, Mo.
BOBBÉ, SIDNEY S., B.S. 1913.....	New York City
BOLES, CHARLES E., A.B. Bethel 1906.....	Glasgow, Ky.
BOMER, JHON O'NEILL, JR., B.S. Vanderbilt 1913.....	Brownsville, Tenn.
BRAUS, LEON, B.S. 1913.....	New York City
BROCK, ARNOLD J. R., A.B. 1913.....	New York City
BRODERICK, EDWARD VINCENT, A.B. 1912, A.M. 1913.....	Yonkers, N. Y.
BROWN, FRANK J., A.B. 1913.....	New York City
BUFORD, CORNELIUS HARDY, A.B. Vanderbilt 1913.....	Nashville, Tenn.
BUNGARD, MAURICE ZUEVIA, B.S. C. C. N. Y. 1912.....	New York City
BUNZL, JULIUS VICTOR, A.B. 1912.....	New York City
CARROLL, JOSEPH WILLIAM, A.B. 1911.....	New York City

CASTRUCCIO, CONSTANTINE, A.B. Santa Clara 1913.....	Los Angeles, Calif.
CLARK, BYRON, JR., A.B. Washington & Jefferson 1912.....	New York City
CLARK, FRANCIS JOHN, A.B. St. Francis Xavier 1912.....	New York City
CLARK, RUSSELL ARTHUR, A.B. Oberlin 1912.....	New York City
CONGER, FREDERIC, A.B. Williams 1912.....	New York City
CONNICK, LOUIS, A.B. Yale 1912.....	New York City
COONEY, EDWIN WRIGHT, A.B. N. Y. Univ. 1911.....	Larchmont, N. Y.
CURRAN, CYRIL J., A.B. Notre Dame 1912.....	Rochester, N. Y.
CURRY, VINCENT EDWARD, A.B. 1913.....	Hyde Park-on-Hudson, N. Y.
DAVISSON, RICHARD LEECH, A.B. Yale 1913.....	Dayton, Ohio
DOLBEARE, FREDERIC RUSSELL, A.B. Yale 1907.....	Hartford, Conn.
DRACHMAN, EDGAR JACOB, A.B. C. C. N. Y. 1912.....	New York City
DRISCOLL, FRANCIS LAWRENCE, Ph.B. Yale 1912.....	New York City
DWIGHT, MAITLAND, A.M. 1913, A.B. Princeton 1911.....	Convent, N. J.
ERPPF-LEFKOVICS, CARL E., A.B. C. C. N. Y. 1912.....	New York City
EVANS, HUBERT, A.M. Wake Forest 1898, Ph.D. Leipzig 1902.....	New York City
FELKER, PAUL McDANIEL, A.B. Georgia 1912.....	Monroe, Ga.
FIKE, TRACY R. V., A.B. 1913.....	New York City
FOWLER, DUDLEY FREDERICK.....	New York City
FRANK, VICTOR P., A.B. 1913.....	Chicago, Ill.
GIDEN, ABRAHAM ARTHUR.....	New York City
GILLELEN, WARREN, JR.....	Los Angeles, Calif.
GINSBURG, SAMUEL, A.B. Cornell 1913.....	Elmira, N. Y.
GIVEN, PHILIP L., A.B. Wesleyan 1909, A.M. Harvard 1910.....	Newark, N. J.
GLUCK, JULIUS BERTRAM, A.B. Cornell 1913.....	New York City
GOLDIN, GULLIE B., A.B. Georgia 1912.....	Atlanta, Ga.
HAIBLUM, LEO N., A.B. C. C. N. Y. 1912.....	New York City
HANN, CHARLES, JR., A.B. Harvard 1911.....	Brookline, Mass.
HARRAH, EDWARD, A.B. Yale 1911.....	New York City
HERRICK, HAROLD E., A.B. Yale 1912.....	New York City
HERRLICH, WILLIAM L., B.S. 1912.....	New York City
HEYDER, HANS, Equiv. A.B. Berlin 1906.....	Berlin, Germany
HEYN, OTTO PETER, JR., A.B. Princeton 1912.....	New York City
HILL, DUDLEIGH, A.B. 1910.....	New York City
HYMAN, MAXWELL, A.B. 1913.....	New York City
IVEY, ALPHONSO L., B.S. Georgia 1908.....	Union Point, Ga.
JACOBS, ELIAS REX, A.B. C. C. N. Y. 1912.....	New York City
JENKINS, ISAAC NEWTON, A.B. Ohio State 1912.....	Oak Hill, Ohio
JEROME, WILLIAM TRAVERS, JR., A.B. Yale 1912.....	New York City
JOHNSON, JOSEPH LEONARD, A.B. Ohio State 1911.....	Columbus, Ohio
JONES, JOHN KENNETH, Ph.B. Dennison 1911.....	Newark, Ohio
JONES, ROBERT HALLEY, A.B. Texas 1912.....	New York City
JOSEPH, EDMUND G., A.B. Pennsylvania State 1913.....	New York City
KNAUTH, ARNOLD WHITMAN, A.B. Harvard 1912.....	New York City
KRAMER, SAMUEL, A.B. Yale 1912.....	New Haven, Conn.
LAZARUS, STANLEY MATTHEWS, A.B. Tulane 1913.....	New Orleans, La.
LEWIS, CLARENCE LESLIE, A.B. 1913.....	New York City
LILLEY, JOHN LEAVENS, Ph.B. Yale 1909.....	New York City
LITTLE, JOHN THEODORE, A.B. 1913.....	New York City
LIVINGSTON, ROBERT R., Litt.B. Princeton 1910.....	Cheviot-on-Hudson, N. Y.
LYON, CLIFFORD S., A.B. Dartmouth 1910.....	Holyoke, Mass.
MACADAM, JOHN KING, A.B. Fordham 1912.....	New York City
MCCORMICK, JOHN KERNAN, A.B. 1913.....	New York City
MACDUFF, DOUGLAS, A.B. Michigan 1903, A.M. Wisconsin 1907...	Peekskill, N. Y.
McKINNON, JOHN, B.S. Iowa Wesleyan 1907.....	Mt. Pleasant, Ia.

McPHERSON, CHAUNCEY RYDER, B.S. Pennsylvania 1913.....	Elizabeth, N. J.
MARTIN, FRANCIS LINTON, Ph.B. Yale 1912.....	Chattanooga, Tenn.
MEEKER, DAVID EDWARD, A.B. Yale 1913.....	New York City
MEISEL, CHARLES J. W., A.B. 1911, A.M. 1913.....	New York City
MORRIS, BURTON BURNS, A.B. Arkansas 1911, L.L.B. Cumberland 1913, England, Ark.	
MULWITZ, JACOB L., A.B. 1913.....	Port Chester, N. Y.
MURPHY, JOHN JOSEPH, A.B. 1911.....	Hartford, Conn.
NATHANSON, SAMSON, A.B. Brown 1912.....	Central Falls, R. I.
NETTER, WILLIAM, A.B. Cornell 1913.....	New York City
O'DONAHOE, GERALD GEORGE, A.B. Sacred Heart 1910, B.S. Fordham 1912, N. Y. City	
ORR, WALTER STUART, A.B. Amherst 1912.....	Orr's Mills, N. Y.
PEARCE, CHARLES CHESTER, A.B. Wisconsin 1909.....	Dodgeville, Wis.
PEIKER, HARRY C.....	Paola, Kans.
PROPPER, KARL, A.B. 1913.....	New York City
READ, JOEL LEWIS, B.L. Ohio Wesleyan 1912.....	Columbus, Ohio
REED, LYNN P., A.B. 1913.....	New York City
REMSEN, WILLIAM, A.B. 1911.....	New York City
RICHARDS, W. CARL, A.B. Wooster 1911.....	Germantown, Md.
RIVES, FRANCIS BAYARD, A.B. Yale 1911.....	New York City
ROSENTHAL, WILLIAM JOSEPH, A.B. 1913.....	New York City
ROSS, VIVIAN CLINTON, A.B. Rutgers 1912.....	New Brunswick, N. J.
ROTHBERG, HARVEY ISIDOR, A.B. Amherst 1912.....	Plainfield, N. J.
ROTHSCHILD, JAY LEO, A.B. 1912.....	Pittsburgh, Pa.
ROTHSTEIN, HERMAN ZIGMUND, A.B. C. C. N. Y. 1913.....	New York City
RUSHMORE, EVERETT, Litt.B. Princeton 1912.....	Mamaroneck, N. Y.
SCANDRETT, RICHARD BROWN, JR., A.B. Amherst 1911.....	Pittsburgh, Pa.
SCHARMANN, AUGUST CHARLES, A.B. Yale 1912.....	New York City
SCHECHTER, FRANK ISAAC, A.B. 1912.....	New York City
SCHWED, IRVING, Ph.B. Lafayette 1912.....	Somerville, N. J.
SHIENTAG, JACOB, A.B. C. C. N. Y. 1912.....	New York City
SEALES, SOL, B.S. C. C. N. Y. 1912.....	New York City
SINGER, ANTON.....	West Hoboken, N. J.
SMITH, NORMAN CLARENCE, A.B. Emory & Henry 1912.....	Pocahontas, Va.
SMITH, THEODORE E., JR., A.B. Harvard 1912.....	Akron, Ohio
SOMMER, BERTRAM, A.B. C. C. N. Y. 1913.....	New York City
STEARNS, GEORGE RAYNOLDS, JR., A.B. 1913.....	Buffalo, N. Y.
STECKLER, EDWARD LOUIS, A.B. 1913.....	New York City
STEIN, SAMUEL DAVID, A.B. New York Univ. 1912.....	New York City
STEINHARDT, LAWRENCE A., A.B. 1913.....	New York City
STOKES, THOMAS O., A.B. Princeton 1912.....	Princeton, N. J.
STRADFORD, CORNELIUS FRANCIS, A.B. Oberlin 1912.....	Tulsa, Okla.
STRAUSS, IRWIN DERNHAM, A.B. 1913.....	Holyoke, Mass.
SWORDS, ALBERT TWOMBLY.....	New York City
TANNENBAUM, FERDINAND, A.B. Wabash 1912.....	Crawfordsville, Ind.
TOMPSON, LYNN HARRISON, A.B. Yale 1913.....	Salt Lake City, Utah
TOMLINSON, DANIEL GRANT, A.B. Yale 1912.....	New York City
TURNER, CYRUS CALHOUN, JR., A.B. Yale 1911.....	New York City
UNTERMYER, EUGENE MAURICE, A.B. 1913.....	New York City
VAUGHAN, JAMES ANDREW, A.B. Elon 1908.....	Franklin, Va.
VOORHEES, TRACY S., A.B. Rutgers 1911.....	New Brunswick, N. J.
WACK, WILLIAM HERMAN, B.S. 1913.....	New York City
WAINWRIGHT, STUYVESANT, JR., A.B. Yale 1913.....	Rye, N. Y.
WARD, JOS. P., A.B. C. C. N. Y. 1912.....	New York City
WHITLEY, HOWARD STERLING, M.E. Stevens Inst. Tech.....	Leonida, N. J.
WHITTINGHAM, EDWARD RENWICK, Litt.B. Princeton 1912.....	Milburn, N. J.

WIECHMANN, WALTER GERARD, A.B. Harvard 1912.....New York City
 WILGUS, WALTER QUINCY.....Ann Arbor, Mich.
 WILK, HARRY, A.B. Minnesota 1913.....Virginia, Minn.
 WILSON, RICHARD BARTLEY, Ph.B. Brown 1912.....Youngstown, Ohio
 WILSON, WINTHROP ALDEN, A.B. Harvard 1912.....Pawtucket, R. I.
 WOLFERS, FRED ROBERT, A.B. Missouri 1912.....Pickering, Mo.
 WOLINSKY, PHILIP, A.B. C. C. N. Y. 1912.....New York City
 WOODHOUSE, CHARLES DOUGLAS, A.B. Williams 1910.....Burlington, Vt.
 [142]

FIRST YEAR—CLASS OF 1916

ADAMS, HENRY CLINTON, Litt.B. Princeton 1912.....Bedford Hills, N. Y.
 ADAMS, OTIS HILL, A.B. Georgia 1913.....Covington, Ga.
 ADAMS, PURSER ELDER, A.B. Princeton 1913.....New York City
 ALLEN, CLARENCE EMIR, JR., A.B. Yale 1913.....Salt Lake City, Utah
 ALMAND, BOND, Ph.B. Emory 1913.....Lithonia, Ga.
 ALSOP, HAROLD PENN UPDEGRAFF, A.B. Harvard 1912.....Washington, D. C.
 BACON, WILL C., A.B. N. Dakota 1913.....Cando, N. D.
 BAILEY, CHARLES ROBERT, A.B. Washington & Lee 1912.....Bakersville, N. C.
 BARNETT, CARLYLE REGINALD, B.S. 1913.....New York City
 BARRETT, BEACH, A.B. 1913.....Bloomfield, N. J.
 BAUTZ, LOUIS X., A.B. Fordham 1913.....New York City
 BECK, PERRY ALLEN, A.B. Allegheny 1913.....Seneca, Pa.
 BELLAMY, EMMETT HARGROVE, A.B. North Carolina 1912.....Wilmington, N. C.
 BERLINER, IRWIN M. (Senior in Columbia College).....New York City
 BLACKMAR, ABEL EDWARD, A.B. Hamilton 1913.....New York City
 BLACKWELL, JAMES MADISON (Senior in Columbia College).....New York City
 BOGLE, RONALD FLETCHER, A.B. Williams 1913.....Wappingers Falls, N. Y.
 BOOTH, FRANK (Senior in Columbia College).....New York City
 BOYCE, PAUL L., A.B. Clark 1913.....Bolton Landing, N. Y.
 BURCHELL, ARTHUR VINCENT, A.B. C. C. N. Y. 1913.....New York City
 BURGESS, ISAAC THAYER.....West Winfield, N. Y.
 BUTLER, CHARLES ALLEN (Senior in Columbia College).....New York City
 BUTTERWORTH, GEORGE FORREST, JR., A.B. 1913.....New York City
 CADMAN, FREDERICK LESLIE, A.B. Amherst 1913.....New York City
 CALDWELL, GEORGE DANFORTH, A.B. 1913.....Louisville, Ky.
 CALDWELL, JOE YONGUE, A.B. North Carolina 1913.....Statesville, N. C.
 CAPSHAW, HULON J., A.B. Tennessee 1913.....Cookeville, Tenn.
 CARNALL, WALTER F.....Colorado Springs, Colo.
 CASTRO, FERNANDO, Equiv. A.B. Costa Rica 1912.....San José, C. R.
 CATZEN, BERTRAM (Senior in Columbia College).....Baltimore, Md.
 CHAUNCEY, A. WALLACE, Ph.B. Yale 1913.....New York City
 CHESTER, WILLIAM MERRILL, Litt.B. Princeton 1913.....Milwaukee, Wis.
 CLASS, JOHN LYONS (Senior in Columbia College).....New York City
 CLASS, T. SHERMAN, Litt.B. Princeton 1913.....Westfield, N. J.
 COE, RICHARD STORRS, A.B. Yale 1913.....New York City
 CROUSE, DAVID STOWE.....Lincolnton, N. C.
 CRUSE, BERNARD AUGUSTINE, A.B. Seton Hall 1912.....New York City
 DANN, OSCAR LOUIS, A.B. C. C. N. Y. 1913.....New York City
 DAVENPORT, RUSSELL LOUNSBERRY, B.S. Amherst 1912.....Ogden, Utah
 DE BEIKEDON, BENNETT, A.B. Yale 1912.....New York City
 DEMUTH, FRANK WOLF (Senior in Columbia College).....New York City
 DILLS, DUANE R. (Senior in Columbia College).....Scranton, Pa.
 ECKELS, CLAUDE ALAN, B.S. Allegheny 1913.....Kane, Pa.
 EMBURY, DAVID AUGUSTUS, A.B. Cornell 1908.....Morrisville, N. Y.
 EVANS, JOHN FAIRHURST.....Paterson, N. J.

FALK, EDWIN ALBERT, B.S. Pennsylvania 1913.....	New York City
FISHER, HENRY LAPE (Senior in Columbia College).....	New York City
FREEMAN, ROBERT HILL, A.B. Georgia 1913.....	Newman, Ga.
GASTON, GEORGE HOUSTON, JR., A.B. Princeton 1913.....	New York City
GATES, MERRILL NEWCOMB, A.B. Williams 1911.....	New York City
GEARY, ARTHUR McCORNACK, A.B. Oregon 1910.....	Portland, Ore.
GERSON, BERNARD FELIX (Senior in Columbia College).....	Montgomery, Ala.
GIBSON, J. STANLEY, A.B. Harvard 1913.....	Cambridge, Mass.
GOLDBERG, JEFFREY SOLON, Ph.B. Brown 1913.....	New York City
GORDON, FRANK A. (Senior in Columbia College).....	Elizabeth, N. J.
GRADY, JAMES THOMAS.....	New York City
GRAFTON, HORACE KIRBY (Senior in Columbia College).....	New York City
GRAHAM, ALVIN LIDDON (Senior in Columbia College).....	New York City
GRIFFIN, EGBERT BRADNEY, A.B. 1913.....	New York City
GULDNER, RENÉ, LL.D. Strassburg 1912.....	Wichita, Kansas
HAAREN, ARTHUR HERMAN (Senior in Columbia College).....	New York City
HAFEY, JEROME THOMAS, A.B. Detroit 1913.....	Holyoke, Mass.
HALL, HERBERT WILLIAM, A.B. Pittsburgh 1913.....	Tarentum, Pa.
HARRIS, RALPH SCOTT.....	Birmingham, Ala.
HATCH, VERMONT, A.B. Harvard 1913.....	Heber City, Utah
HEALY, THOMAS JEFFERSON, B.S. Colgate 1913.....	Bennington, Vt.
HEARN, CORNELIUS, JR. (Senior in Columbia College).....	New York City
HENDERSON, HARRY BUCK.....	Cheyenne, Wyo.
HENDRICK, PHILIP EDWARD, JR.....	New York City
HERKERT, KARL, JR., (Senior in Columbia College).....	New York City
HILDRETH, MELVIN DAVIS, A.B. Fargo 1913.....	Fargo, N. D.
HOCHSTEIN, LOUIS IRVING.....	New York City
HOFFMANN, ALBERT SIEGFRIED.....	New York City
HORN BROOK, GEORGE LUTZ, Litt.B. Princeton 1912.....	Wheeling, W. Va.
HOTCHKISS, HENRY GREENE, A.B. Williams 1913.....	New York City
HUBBARD, M. G., JR., A.B. Middlebury 1913.....	New York City
HUGHES, JAMES H., JR., Ph.B. Dickinson 1911.....	Felton, Del.
HUNTER, ALEXANDER HAYES, A.B. Princeton 1913.....	Pittsburgh, Pa.
JONES, DEWITT CLINTON, III, A.B. Princeton 1913.....	Elizabeth, N. J.
JORDAN, DAVID LEO, A.B. Fordham 1904.....	Yonkers, N. Y.
KANEKO, GIN JIRO, A.B. I. Y. M. C. A. 1912.....	Tokio, Japan
KATZ, JEROME F., A.B. C. C. N. Y. 1911.....	New York City
KAUFMAN SAMUEL (Senior in Columbia College).....	Newark, N. J.
KENYON, GEORGE ROSS, Litt.B. Princeton 1913.....	New York City
KERR, DAVID RENWICK (Senior in Columbia College).....	New York City
KIMBALL, CHARLES EDMUND, JR., A.B. Princeton 1913.....	New York City
KINAN, MORRIS ENGENTON, A.B. Princeton 1913.....	New York City
KINSWORTHY, BURTON SUTTUN, A.B. Arkansas 1913.....	Little Rock, Ark.
KISTER, FRANK ADAMS, A.B. Pennsylvania 1913.....	New York City
LA CORTE, SALVATORE FRANCIS (Senior in Columbia College)....	Elizabeth, N. J.
LARREMORE, THOMAS ARMITAGE, A.B. Yale 1911.....	New York City
LASHER, JOHN KENNEDY, JR. (Senior in Columbia College).....	Yonkers, N. Y.
LEVINSON, DAVID DANIEL, B.S. C. C. N. Y. 1912.....	Harrisburg, Pa.
LIVINGSTON, SAMUEL MAURICE.....	Ware, Mass.
McAVOY, PRESTON THOMAS, A.B. Creighton 1913.....	Omaha, Neb.
McDOWELL, ROBERT PITKIN, A.B. Syracuse 1913.....	Elmira, N. Y.
McLEAN, OWEN CALDWELL, A.B. Allegheny 1913.....	Sharon, Pa.
McNAMARA, JOHN GAFFNEY, A.B. Georgetown 1912.....	Norwich, Conn.
McQUILLEN, PAUL WILLIAM, A.B. Georgetown 1913.....	Passaic, N. J.

MAURICE, STEWART, A.B. 1913.....	Mamaroneck, N. Y.
MAUTNER, BERTRAM H., Litt. B. Princeton 1913.....	New York City
MEAD, EDWIN HENRY, A.B. Yale 1912.....	South Orange, N. J.
MEBANE, BANKS HOLT.....	Spray, N. C.
MEENAN, DANIEL LEO, JR. (Senior in Columbia College).....	New York City
MILHEISER, CLARENCE FREDERICK.....	New York City
MINOR, JAMES HENRY.....	Plainville, Conn.
MOFFAT, STANLEY MATTHEWS, A.B. Princeton 1913.....	Yonkers, N. Y.
MORIARTY, JOHN HENRY, A.B. Manhattan 1913.....	Jersey City, N. J.
MURPHEY, HERMON KING, A.B. Amherst 1913.....	Niagara Falls, N. Y.
MURPHY, SAMUEL WILSON, A.B. Wesleyan 1913.....	New York City
NATHAN, EDGAR JOSHUA, JR., A.B. Williams 1913.....	New York City
NEWMAN, DOUGLAS (Senior in Columbia College).....	New York City
O'NEIL, AUGUSTIN, A.B. Holy Cross 1910.....	Akron, Ohio
PARSONS, SCHUYLER LIVINGSTON, JR.....	Islip, N. Y.
PEARSE, WILLIAM HENRY, A.B. Dartmouth 1911.....	New York City
PETTEWAY, HUBERT CONNOR, A.B. North Carolina 1913.....	Brooksville, Fla.
PETTEWAY, WALTER RALEIGH, A.B. North Carolina 1913.....	Tampa, Fla.
PLAMONDON, CHARLES AMBROSE, JR., A.B. Cornell 1912.....	Chicago, Ill.
POTTER, MICHAEL.....	New York City
PURDY, JAMES HOWARD, JR. ((Senior in Columbia College).....	New York City
QUIGG, MURRAY TOWNSEND, A.B. Harvard 1913.....	Austerlitz, N. Y.
RAPHAEL, JESSE, A.B. C. C. N. Y. 1913.....	New York City
RAPPAPORT, JACK L. (Senior in Columbia College).....	New York City
REISS, GEORGE ANDREW, Ph.B. Lafayette 1913.....	Elizabeth, N. J.
ROBERTS, CARROLL McLEAN, A.B. Oberlin 1913.....	Geneseo, N. Y.
ROBINSON, MILTON KENNEDY, A.B. Rochester 1912.....	Rochester, N. Y.
ROSEFF, ALEXANDER (Senior in Columbia College).....	Mt. Vernon, N. Y.
ROTHFELD, LAURENCE, A.B. Williams 1913.....	New York City
RUBEL, FRANK RAYMOND, B.S. Mississippi 1912.....	Corinth, Miss.
RUBIN, SAMUEL (Senior in Columbia College).....	New York City
SANFORD, FERDINAND DOAN, A.B. Princeton 1909.....	Warwick, N. Y.
SCHWARTZ, JESSE, B.S. C. C. N. Y. 1912.....	New York City
SCHWARZ, PHILIP, Equiv. A.B. Gymnasium, B. Szarvas 1910.....	New York City
SHORT, LIVINGSTON LYMAN, A.B. Williams 1913.....	New York City
SHUKRI, AHMED, A.M. 1913.....	Nicosia, Cyprus
SHUTT, ERWIN REED, A.B. Rochester 1913.....	Rochester, N. Y.
SMITH, BENJAMIN GREGORY, A.B. Pennsylvania State 1911.....	Pottsville, Pa.
SMITH, ETHELBERT TALBOT, A.B. Trinity 1913.....	New York City
SMITH, WESLEY L., B.S. 1912.....	Baldwin, N. Y.
SOONS, SYDNEY GROVER CLEVELAND, A.B. C. C. N. Y. 1913.....	New Hampton, N. Y.
SPENCER, EDGAR ALLEN BURR.....	New York City
STANFORD, FRANK CURTIS, B.L. Notre Dame 1913.....	Independence, Kans.
STEUER, BERNARD, A.B. C. C. N. Y. 1913.....	New York City
STEWART, JOHN CLARK, A.B. Washington & Jefferson 1913.....	Wilkinsburg, Pa.
STITT, EDWARD WALMSLEY, JR., A.B. C. C. N. Y. 1913.....	New York City
STRANGE, ROBERT, JR., A.B. North Carolina 1913.....	Wilmington, N. C.
STUDWELL, SPENCER A., A.B. Wesleyan 1913.....	Greenwich, Conn.
SWANTON, HOBART POND.....	Rochester, N. Y.
THIESING, THEODORE HEINRICH, Equiv. A.B. Gymnasium Josephinum 1910, N. Y. City	
THOMAS, RUPERT BROAS, A.B. Princeton 1913.....	New York City
TRUMBULL, GEORGE LEE, A.B. Williams 1912.....	Greenwich, N. Y.
VREELAND, HAMILTON, JR., Litt.B. Princeton 1913.....	Jersey City, N. J.
WALKER, MERLE ROYSE, A.B. De Pauw 1912.....	New York City

WALLACE, FRED LEROY, A.B. De Pauw 1909.....	Bunker Hill, Ind.
WALSER, KENNETH EASTWOOD, A.B. Union 1912.....	Cohoes, N. Y.
WARFIELD, WILLIAM, A.B. Lafayette 1911.....	Easton, Pa.
WASSERMANN, JESSE A., A.B. Yale 1913.....	New York City
WEATHERS, BRANTLEY ALEXANDER, A.B. Amherst 1911.....	Ocala, Fla.
WHEELER, WILLIAM FRANKLIN, A.B. Kentucky 1908.....	Hazel Green, Ky.
WILSON, ANDREW, JR., A.B. Yale 1913.....	Newark, N. J.
WILSON, DUDLEY AUDREL, A.B. De Pauw 1913.....	Birmingham, Ala.
ZOLLER, CARL, JR., Ph.B. Yale 1913.....	New York City

[162]

NON-MATRICULATED STUDENTS

ARNOLD, EARLE BERNON, A.B. Brown 1911.....	N. Scituate, R. I.
BRANNEN, HANEY D., LL.B. Atlanta Law School 1911.....	Statesboro, Ga.
CARTER, CHAMPE G., A.B. Texas 1911, LL.B. 1913.....	San Antonio, Texas
CODLING, WILLIAM BRIGDEN, JR.....	Northport, N. Y.
CUNNING, PATRICK HENRY, LL.B. Notre Dame 1912, LL.M. 1913....	Pittsburgh, Pa.
DEEN, DEWITT TALMAGE, B.L. Georgia 1913.....	Waycross, Ga.
DE FLOU, CHARLES, LL.B. Indiana 1913.....	Eureka, Nev.
EHRLMAN, SAMUEL LASKER, LL.B. Arkansas 1913.....	Little Rock, Ark.
ELKEN, CLARENCE LEONARD, LL.B. N. Dakota 1913.....	Mayville, N. D.
FREYRE, FERNANDO, JR., D.C.L. Havana 1912.....	Havana, Cuba
GALE, EARL HARRISON.....	Gale, N. Y.
HALL, JULIAN CROSWELL.....	San Antonio, Texas
HAMILTON, ALEXANDER, JR.....	Woodbury, Conn.
INGRAM, DONALD MCCHESNEY, A.B. Texas 1911.....	Ft. Worth, Texas
KOSIK, GUSTAV.....	Newark, N. J.
LACKEY, WILLIAM TRUESDELL.....	Saugerties, N. Y.
DE LEON, JOSE.....	Pompana, P. I.
LEWIS, SYDNEY.....	New York City
MCLAUGHLIN, JAMES BENNETT, JR., A.B. Ohio State 1912.....	Columbus, Ohio
MABY, ADELBERT C.....	Kittery, Me.
MANSBACK, IRVING E.....	New York City
MONTORO, JOSE ENRIQUE, LL.M. Havana.....	New York City
MOORE, HENRY B.....	Greenport, N. Y.
MUSSER, BENTON N.....	Salt Lake City, Utah
OELRICHS, HERMANN.....	New York City
PARHAM, EDWARD RODNEY, LL.B. Arkansas 1912.....	Little Rock, Ark.
PATTERSON, JAMES SOUTHERLAND, A.B. North Carolina 1910.....	Durham, N. C.
PEEPLER, THORNWELL K.....	Savannah, Ga.
RICHARDS, FRANK SELLS.....	Salt Lake City, Utah
ROMEY, THOMAS BOYD, A.B. Texas 1913.....	Tyler, Texas
SHALLECK, JOSEPH.....	New York City
SLAYTON, GEORGE NOYES, A.B. Amherst 1911.....	Morrisville, Vt.
STINSON, J. WHITLA, B.S. 1906, C.E. 1907.....	New York City
STRAWMAN, CLIFFORD MELVIN, B.S. Cornell 1911.....	Anamosa, Ia.
TUNIS, ROBERTS.....	Cambridge, Mass.
VALLANCE, WILLIAM ROY, A.B. Rochester 1910.....	Fowlerville, N. Y.
VELEBIR, ANDREW, JR., A.B. Harvard 1912.....	Belt, Mont.
VON HELMOLT, CARL, JR.....	New York City
WILLIAMS, HAROLD VINCENT, A.B. Harvard 1911.....	Somerville, Mass.
WISE, LOUIS J.....	Yazoo City, Miss.
WOOD, JOHN SAMUEL, A.B. Arkansas 1912.....	Ft. Smith, Ark.

[41]

SUMMARY

Third Year—Class of 1914.....	129
Second Year—Class of 1915.....	142
First Year—Class of 1916.....	162
Non-matriculated students.....	41
	<hr/>
Total.....	474
Deduct Columbia College students.....	26
	<hr/>
Net Total.....	448

SCHOOL OF MEDICINE

COLLEGE OF PHYSICIANS AND SURGEONS

Faculty President BUTLER

Dean LAMBERT

Professors BREWER, BURTON-OPITZ, CRAGIN, EVANS, GIES (*Secretary*), HOLT, HUNTINGTON, JAMES, JANEWAY, LAMBERT (A. V. S.), LEE, LONGCOPE, MACCALLUM, PAINTER, SCHULTE, STARR, WOOD, ZINSER

Committees ON ADMINISTRATION: The Dean (*Chairman*), Professors BREWER, CRAGIN, HUNTINGTON, LEE, LONGCOPE and MACCALLUM

ON ADMISSIONS: The Dean (*Chairman*), Professors WOOD and BURTON-OPITZ

ON SCHOLARSHIPS: The Dean (*Chairman*), Professors SCHULTE and PAINTER

ON STUDENTS' LIBRARY: Professors HUNTINGTON (*Chairman*), BREWER, and GIES

Delegates to the University Council, see page 4

Emeritus Professors (see page 6)

Historical King's College—the original foundation of Columbia University—organized a Medical Faculty in 1767 and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine in course. The first individuals to graduate in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May, 1769, and that of Doctor of Medicine in May, 1770, and May, 1771, respectively. Instruction in medicine was given from this time on until the work of the College was broken up by the War of the Revolution. In 1784 an act was passed making Columbia College in the City of New York the successor of King's College, and instruction was resumed in the academic department. Eight years later the Medical Faculty was re-established, and was continued until 1814, when the Medical Faculty of Columbia College was merged in the College of Physicians and Surgeons, which had received an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the medical department of Columbia College, and from that time on the diplomas of the graduates were signed by the President of Columbia College as well as by

the President of the College of Physicians and Surgeons. The connection was only a nominal one, however, until 1891, when the College was definitely merged in the University.

Since 1769 the degree of Doctor of Medicine has been conferred by Columbia University on 7757 men, including many of the most eminent practitioners in the United States.

The College of Physicians and Surgeons was first situated at 18 Robinson Street, from 1807 to 1809. From 1809 to 1813 it was at 12 Magazine Street; from 1813 to 1837 at 3 Barclay Street; from 1837 to 1856 at 67 Crosby Street; and from 1856 to 1887 at 101 East Twenty-third Street. It now occupies a group of buildings which stand upon thirty contiguous lots of land, bounded on the south, west, and north by Fifty-ninth Street, Amsterdam Avenue, and Sixtieth Street, respectively, and lying immediately opposite the Roosevelt Hospital.

**Location and
Equipment**

The main College buildings have been designed to facilitate the combination of theoretical instruction with laboratory work, which is essential to a modern scientific training. In these buildings, which have a floor space of 100,000 square feet, are the lecture halls, the recitation rooms, and the laboratories, under the supervision of their respective professors, all thoroughly equipped for the routine work of the regular classes and for the special original and research work of the advanced students, instructors, and professors of the several departments; the administrative offices, the laboratories of physiology, bacteriology, anatomy, organic and biological chemistry, surgery, pharmacology and pharmacy, pathology and clinical pathology, the morphological museums and laboratory, a dissecting-room accommodating 400 students, and two large amphitheatres.

**Main
Building**

For a more detailed account of the equipment of each department, see the departmental statements.

The alliance brought about by the mutual action of the two boards of trustees between the College of Physicians and Surgeons and the Presbyterian Hospital will permit the scientific and clinical direction by the University of the medical, surgical, and pathological services of the hospital. A clinical service in medicine and in surgery has been organized in the hospital and placed in the charge of the Professors of Medicine and of Surgery, respectively. These services contain about fifty beds each and form an admirable beginning of a ward hospital service for the Departments of Medicine and of Surgery.

**Presbyterian
Hospital**

The Presbyterian Hospital contemplates the building of a new plant in which the present arrangements will be far surpassed, both in scientific facilities and in the number of beds.

The exceptional advantages of bringing about such an alliance between the College and the Presbyterian Hospital cannot be overstated. The

system of sending fourth-year students to the various hospitals as clinical clerks has been strengthened and made more effective. The students will be sent to the other hospitals, which have admitted clinical clerks, as heretofore, but the wards of the Presbyterian Hospital, in so far as they have been designated for university purposes, will offer a more thorough opportunity for the study of bed patients. The future development in these lines will place the College of Physicians and Surgeons in the enviable position where its clinical facilities will be commensurate with the excellent laboratory development which has taken place during the last ten years.

Library The libraries of the College of Physicians and Surgeons consist of a general reference library with reading-room, and the special libraries of various departments. The general reference library is located on the first floor of the main building. It is open during the day and is freely accessible to all students. It contains 2,485 volumes and 5,000 pamphlets, which include a collection of current text-books and monographs and the most important current medical journals. The books are classified according to the classification of the Library of Congress, and are catalogued with author, subject, and title entries. The catalogue will eventually become a union catalogue of all books in the different libraries of the College. Books are loaned out over night for the convenience of students who wish to study at home. The special libraries are located in the rooms of the various departments. They consist largely of periodical literature, but include many monographs and other books relating to the subjects of the respective departments. They are of special interest to the investigators in these departments, but may be used by other students upon special request.

More than three hundred periodicals are received in the several libraries of the College. The number of volumes and pamphlets is as follows:

Anatomy, 1,400 volumes, 2,000 pamphlets; Biological Chemistry, 2,000 volumes, 6,000 pamphlets; Pathology, 5,500 volumes, 2,000 pamphlets; Physiology, 5,000 volumes, 7,500 pamphlets; Practice of Medicine (Jane-way Library), 2,500 volumes, 3,000 pamphlets; Reference Library, 2,500 volumes, 5,000 pamphlets; Surgery (at the Presbyterian Hospital), 500 volumes; total, 19,400 volumes, 25,500 pamphlets.

Vanderbilt Clinic The Vanderbilt Clinic is a fully-equipped dispensary for the sick poor. It also affords ample material for extended practical clinical instruction in the various departments of medicine and surgery, as the professors, with their clinical assistants, have the entire charge of its practice. The building is so arranged that each department has a room for the practical instruction of students in small sections, in addition to the rooms devoted to the treatment of patients; besides, there is a large theatre for clinical lectures and a smaller lecture hall. All modern appliances for the treatment of diseases have been introduced, so that students can learn thor-

oughly the use of all methods in each of the special departments of medicine. During the year 1912, 36,952 patients were treated, making 143,982 visits to the Clinic. For detailed information as to the clinical lectures held here, see the departmental statements in this volume, or the *Announcement of the College of Physicians and Surgeons*.

The Sloane Hospital for Women is under the exclusive direction of the Professor of Obstetrics and Gynecology in the College of Physicians and Surgeons, an Instructor in Obstetrics and an Instructor in Gynecology being the Resident Officers. The wards of the Hospital furnish one hundred and twenty-six obstetrical beds, one hundred babies' cribs, and twenty-five gynecological beds. In addition there are forty-two private-room beds and ample accommodations for the house staff, students, and nurses. There are two large operating rooms, one for obstetrics and one for gynecology, each equipped with all modern appliances for dealing with these conditions, where weekly clinics are held throughout the year. **Sloane Hospital**

With the completion of the Gynecological Department of the Sloane Hospital, the operative material of the large gynecological service of the Vanderbilt Clinic is made available for teaching purposes, so that now, students of the College of Physicians and Surgeons receive on the college grounds practical instruction, not only in normal and complicated obstetrics and the care of young babies, but in the treatment, operative and palliative, of all diseases of the female pelvic organs.

The College is strongly represented on the staffs of most of the general and special hospitals of New York. In them both required and optional practical instruction is given by clinical lectures, in the dispensaries and at the bedside, all of which are prominent features of the curriculum. These hospitals are as follows: Roosevelt, Bellevue, Presbyterian, St. Luke's, French, German, Mt. Sinai, City, Lincoln, General Memorial, Hospital for the Ruptured and Crippled, St. Mary's Free Hospital for Children, Willard Parker, Scarlet Fever and Reception, New York Eye and Ear Infirmary, Foundling, the Babies' Hospital, New York Ophthalmic and Aural Institute, the Manhattan Eye, Ear, and Throat Hospital, and the Woman's Hospital. For a detailed statement, see the *Announcement of the College of Physicians and Surgeons*. **Hospital Clinics**

The prescribed period of study for the degree of Doctor of Medicine is four years. The requirements for admission are given elsewhere, but too much stress cannot be laid upon the desirability of a student fulfilling the spirit as well as the mere letter of those requirements. Physics, general inorganic chemistry, and biology are now required for admission, and the student of medicine will grasp the advanced subjects forming the groundwork of the course the more easily and with the better understand- **Plan of Instruction**

ing just in proportion to the breadth and completeness of his preliminary education. The attention of students is particularly called to the regulations of Columbia College (see page 193) which permit a student to obtain a thorough preliminary training and at the same time to complete the requirements for the degree of A.B or B.S. and the degree of M.D. in six years.

In the arrangement of the different branches of the medical instruction a logical order of the main themes and a co-ordination in the work of each department have been sought after, enabling the student to concentrate his attention upon some one subject and to be so familiar with it that the allied subjects next to be taken up shall be readily understood. The salient features in the method of instruction are thorough laboratory training, frequent demonstrations, clinical teaching in the operating theatres and at the bedside as well as in the dispensaries, with recitations and didactic lectures to elucidate the many problems confronting the student.

In the first half of the first year the time of the student is devoted largely to anatomy. The instruction is carried on mainly by numerous demonstrations to sections and by long periods of uninterrupted work in the dissecting-room. Organic chemistry is taught by lectures, recitations, demonstrations, and laboratory exercises; a practical course in histology and embryology is given. In the second half of the first year physiology is begun, for which the students have been prepared by courses in anatomy. Physiology is taught by lectures, demonstrations, recitations, and practical work in the laboratory. Physiological chemistry is studied in the laboratory and by lectures, recitations, and demonstrations; anatomy is continued and the course in histology and embryology is completed.

In the second year anatomy and physiology are completed. The lectures, recitations, and laboratory courses in pharmacology and bacteriology are attended. As preliminary to the third and fourth years, recitations from text-books are held in obstetrics and surgery. For the second half of the second year the students are assigned to the laboratory for work in pathology and pathological anatomy. In the second half of the year they study clinical pathology and are prepared for the study of medicine by an elementary clinic, and by instruction in the methods of physical diagnosis.

During the third year recitations in medicine and surgery are continued and those in gynecology, diseases of children, and therapeutics are begun. There are theoretical or clinical lectures in medicine, surgery, pharmacology and therapeutics, obstetrics, gynecology, neurology, genito-urinary diseases, laryngology, otology, ophthalmology, dermatology, orthopedic surgery, and diseases of children. The class is divided into small sections for instruction in physical and medical diagnosis, and in the special branches of medicine and surgery at the various dispensaries and hospitals.

The student in the fourth year spends most of his time in the hospitals and dispensaries of the city. Consequently, although a few general and clinical lectures are still given, the work is almost entirely practical and

bedside instruction. Divided into small groups, the students continue to come into personal contact with patients, under the supervision of the instructor. In this way they have the opportunity to become familiar with the history of a case, to make a complete physical examination, to form a diagnosis, to give a prognosis, to advise treatment, and to watch progress. In the course in surgery the witnessing of numerous major and minor operations is supplemented by an operative course in which the student himself performs on the cadaver many of the more common operations. For an obstetrical service, the unsurpassed facilities of the Sloane Hospital for Women and out-patient obstetrical department in connection with the Nursery and Child's Hospital offer excellent opportunities. Here the student is required to live for five weeks and personally attend a certain number of cases of labor. The course in diseases of children includes bedside instruction in the wards of the Babies' Hospital, where exceptional advantages are enjoyed by the students for studying all forms of acute disease in infants and young children. The course is rounded out by personal instruction in the more special branches of medicine. In these branches the student is taught how to use many instruments of precision and to recognize and treat successfully many of the rarer forms of disease.

Courses in the wards of St. Luke's, Bellevue, the Mt. Sinai, the Presbyterian, and the German Hospitals have been opened by those institutions to fourth-year medical students. These courses consist of work in the wards of the hospitals during which the students serve as clinical clerks both in medicine and surgery and become for the time being members of the regular staff. The courses are open for periods of two months' duration both during the summer and during the regular term.

**Clinical
Clerks**

All candidates must present (1) the medical-student certificate of the Regents of the University of the State of New York, and (2) also *one* of the following qualifications:

Admission

- (a) The completion of not less than two full years of study, or the equivalent, in an approved college or scientific school, which course must have included instruction in the elements of physics, inorganic chemistry, and biology; or
- (b) In lieu of the above, candidates of mature years who meet the legal requirements may present such evidence as the Faculty may require, to prove exceptional fitness to undertake with advantage the study of medicine.

Candidates who have completed, without conditions, one or more years of study in an approved medical school will be given credit for all courses satisfactorily completed therein, on presentation of proper certificates to the Committee on Admissions, covering the same; provided that the can-

**Advanced
Standing**

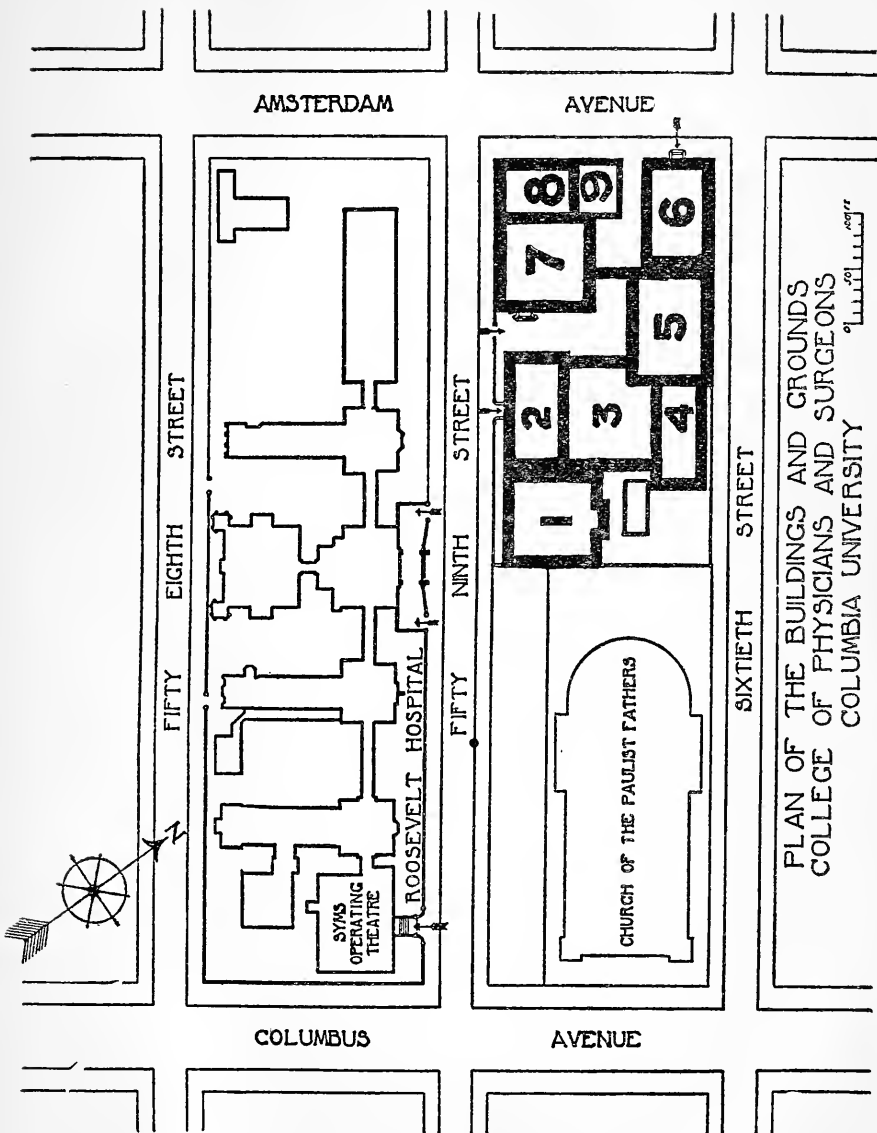
didates before beginning the study of medicine have fulfilled the requirements for admission demanded by the College of Physicians and Surgeons. Application blanks will be furnished on request, and prospective students are requested to file their applications before September 1st to avoid delay in matriculating at the beginning of the season. It is essential that students offering themselves for admission to advanced standing should have had all the work presented in the curriculum of the College of Physicians and Surgeons.

Admission to the second year. Students planning to enter the second year from other medical schools who have not had a course in physiological chemistry at their medical school of previous residence may make up that deficiency by a course in the summer session at Columbia.

Admission to the third year. The course in medical education divides itself logically into two parts, the first of which is scientific and consists of the first two years, and the second is clinical and consists of the last two years. It is found difficult to separate the work of the third and fourth years, and students who desire to obtain the advantages of the clinical opportunities offered in New York City, so far as they are represented by the College of Physicians and Surgeons, are recommended to transfer from their college of previous study at the end of their second year in medicine, and to take both the third and the fourth years at Columbia. Students who have finished the combined course leading to a bachelor's degree, of which the last two years have been taken in a regular medical school connected with their university, are eligible for admission to the third year at the College of Physicians and Surgeons, provided they have taken all the courses of its first two years. Those students, however, who are deficient in physical diagnosis may make up this subject in a special course which is given at the Vanderbilt Clinic for two weeks before the session opens, beginning about September 10th, and the courses in obstetrics and surgery given in the second year can be taken during the third year in addition to the regular work. There is no provision for making up pathology if the prospective student is deficient therein.

Admission to the fourth year. The fourth year at the College is so eminently clinical that admission to it will be limited to students who have already secured the degree of doctor of medicine. It is believed that it will be found to be a valuable post-graduate year for many graduates of other institutions.

Special Students Students desiring to do special work at the College of Physicians and Surgeons may register at any time during the year as special students. Such applicants, however, cannot subsequently become candidates for graduation without full compliance with the terms of admission and graduation. Special students will be required to present to the Committee on Admission before entrance evidence of (a) an adequate preliminary



No. 1. Institute of Anatomy
 No. 2. South Wing
 No. 3. Middle Wing

No. 4. North Wing
 No. 5. Vanderbilt Clinic East
 No. 6. Vanderbilt Clinic West

No. 7. Sloane Maternity Hospital East
 No. 8. Sloane Maternity Hospital West
 No. 9. Gynecological Building

education, and (b) special fitness for the particular work they desire to pursue.

Every candidate in the four-year course will be required before ad- **Graduation**
mission to the degree of M.D.:

1. To present satisfactory evidence, as required by law, of good moral character, and of having attained the age of twenty-one years.

2. To present evidence of having complied with the requirements for admission.

3. To have attained to satisfactory standing in the required studies of the four years of the curriculum. (See table, page 238.)

4. A candidate who shall have been admitted to advanced standing will be required to have spent not less than four academic years at the studies referred to in the clause next preceding; and to have complied successfully with the requirements for admission to advanced standing.

No two academic years which shall have begun during the same calendar year will be held to satisfy the requirements of the preceding clause.

SCHOLARSHIPS, FELLOWSHIPS, AND PRIZES (see page 435)

Detailed information as to the laboratories, collections, and other **Employment**
facilities for study will be found in the statements of the various departments of instruction, pages 230-237, and more fully in the *Announcement of the College of Physicians and Surgeons*.

A general statement of the work offered will be found in connection with **Summer**
the statement of the Summer Session (see the Table of Contents, this **Session**
volume), and a detailed announcement, showing the scope of each course, the conditions under which it is given, and the fee charged, will be sent upon application to the Secretary of Columbia University. (See page 476.)

COURSE OF STUDY LEADING TO THE DEGREE OF M.D.

(A much more detailed summary will be found in the special *Announcement of the College of Physicians and Surgeons*)

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Chemistry (Physical and Organic) 101 Anatomy (including Histology and Embryology) 101, 103-104 Physiology 106-107 (first half) Physiological Chemistry 102 <i>Examinations upon the work of the first year</i> <i>Electives</i> Anatomy 202, 204, 206, 208, 210, 212, 302 Biological Chemistry 207-208, 209-210, 217-218, 219-220, 301-302 Surgery 216	Anatomy 105 and 107 Physiology 106-107 (second half) Pathology 101-102, 105-106 Bacteriology 101 Pharmacology, Materia Medica, and Therapeutics 101-102 Obstetrics 102 Practice of Medicine 102, 104, 106 Surgery 104 <i>Examinations upon the work of the second year</i> <i>Electives</i> Anatomy 109, 111, 113, 114, 116, 118, 120, 202, 204, 206, 208, 210, 212, 251-252 and 302 Biological Chemistry 207-208, 209-210, 211-212, 217-218, 219-220, 221-222, 251-252, 301-302 Pathology 107, 109-110, 111-112, 201-202, 251-252	Therapeutics 201-202, 204 Practice of Medicine 106, 201, 202, 203, 204, 205-206, 207, 208, 209 Neurology 201-202, 203-204, 205-206, 207 Surgery 201-202, 203-204, 205-206, 207 Obstetrics 201, 202 Gynecology 201, 202 Genito-Urinary Diseases 201, 202 Ophthalmology 201 and 202 Otology 201, 202 Diseases of Children 201, 203, 204, 206, 207-208 Orthopedic Surgery 202 Dermatology 201-202, 204 Laryngology 201, 202 Pathology 105-106 <i>Examinations upon the work of the third year</i> <i>Elective Courses</i> Anatomy 109, 111, 113, 114, 116, 118, 120, 202, 204, 206, 208, 210, 212, 251-252 and 302 Bacteriology 201, 203, 205-206, 208 and 251-252 Biological Chemistry 207-208, 209-210, 211-212, 213-214, 302	Therapeutics 205, 207, 209-210 Practice of Medicine 211-212, 213-214, 215-216, 217-218 Neurology 203-204, 205 Surgery 209-210, 211-212, 213-214 Obstetrics 203-204, 205-206 Gynecology 203-204, 205-206, 207-208, 209-210 Diseases of Children 203, 204, 209-210 Hygiene and Preventive Medicine 202 <i>Examinations upon the work of the fourth year</i> <i>Elective Courses</i> Anatomy 109, 111, 113, 114, 116, 118, 120, 202, 204, 206, 208, 210, 212, 251-252 and 302 Bacteriology 201, 203, 205-206, 208 and 251-252 Biological Chemistry 207-208, 209-210, 211-212, 213-214, 302

Bacteriology 201, 203, 205-206, 208, and 251-252	217-218, 219-220, 221-222, 251-252 and 301-302
Biological Chemistry 207-208, 209-210, 211-212, 213-214, 217-218, 219-220, 221-222, 251-252 and 301-302	Dermatology and Syphilis 205-206, 207-208, 209-210, 211-212
Genito-Urinary Diseases 204 and 206	Diseases of Children 213-214, 215-216, 217-218 and 219-220
Laryngology 204 and 206	Gynecology 211-212, 213-214 and 215-216
Ophthalmology 205-206	Laryngology 207-208
Pathology 107, 109-110, 111-112, 201-202, 203, 204, 205 and 251-252	Neurology 207-208, 209-210 and 251-252
Physiology 201-202, 203-204, 205-206 and 251-252	Ophthalmology 205-206
Practice of Medicine 220, 222, 224, 226, 228 and 235	Orthopedic Surgery 203-204, 205-206 and 207
Surgery 215-216	Otology 205-206
Therapeutics 213-214, 215 and 251-252	Pathology 107, 109-110, 111-112, 113-114, 201-202, 203, 204, 205 and 251-252
	Physiology 201-202, 203-204, 205-206, 207 and 251-252
	Practice of Medicine 204, 220, 222, 224, 226, 228, 229, 230, 231-232, 233-234, 235, 236, 237-238 and 251-252
	Surgery 217-218, 219-220, 221-222, 223-224, 225-226, 227-228 and 229-230
	Therapeutics 211-212, 213-214, 215, and 251-252

¹ In all subjects which are not completed in a single year, the instruction offered to a given student is different each year.

Consult the departmental statements (pp. 60, *et seq.*) for:

- (1) The scope of each course, the number of hours required for it, and the instructors giving it.
- (2) Information regarding the courses open to special (graduate) students in medicine.
- (3) Courses which may be counted towards the degrees of A.M. and Ph.D.

REGISTER OF STUDENTS

School of Medicine

FOURTH YEAR—CLASS OF 1914

ACKER, GEORGE NICHOLAS, JR., B.S. Pennsylvania 1909.....	Washington, D. C.
ADLER, HERBERT.....	New York City
ALEXANDER, HARRY LOUIS, A.B. Williams 1910.....	New York City
BENDER, MAURICE BLOCHER, B.S. Pennsylvania 1909.....	Gettysburg, Pa.
BENSON, ARTHUR WRIGHT, A.B. Cornell 1910.....	Troy, N. Y.
BOAS, ERNST PHILIP, B.S. 1910, A.M. 1912.....	Grantwood, N. J.
BRADDOCK, WILLIAM HALLOCK, A.B. Princeton 1908.....	New York City
BRASTED, HOWARD SPENCER, A.B. and A.M. Hamilton 1910 and 1913....	Hornell, N. Y.
BRILL, ISIDOR CHERNIACK, A.B. 1912.....	Portland, Ore.
BROTHERS, JAMES HARVEY, JR.....	New Brighton, N. Y.
BURLINGHAM, ROBERT, A.B. Harvard 1910.....	New York City
CADY, LYNDON BULKLEY, A.B. Williams 1910.....	New York City
CALDWELL, GUY ALVIN, B.S. Univ. of Mississippi 1912.....	Cornith, Miss.
COVEY, GEORGE WORTHINGTON, B.S. Univ. of Nebraska 1912....	College View, Neb.
DINEEN, PAUL ALBINUS LEO, A.B. St. Francis Xavier 1910.....	New York City
DOUGLASS, CHARLES YORK, A.B. Leland Stanford 1908.....	Brooklyn, N. Y.
EBELING, WILLIAM BRUNO, B.S. 1912.....	Brooklyn, N. Y.
EDWARDS, BRYANT BENJAMIN, B.S. Univ. of Alabama 1910.....	Union Springs, Ala.
EICHHORN, LOUIS MAXIME, B.S. C. C. N. Y. 1902.....	New York City
FREUND, HAROLD HERMAN.....	New York City
FURNISS, CLINTON CHOLLET.....	New York City
HALPERN, HERMAN.....	New York City
HAND, CORTLAND KIERNAN.....	Mount Vernon, N. Y.
HUTCHISON, FRED RUDY, B.S. Princeton 1908.....	Alexandria, Pa.
IRVINE, ROBERT STEELE, B.S. Univ. of Nebraska 1912.....	College View, Neb.
JOHNSON, JOHN LORING, A.B. Bowdoin 1911.....	Houlton, Me.
KAPLAN, IRA I., B.S. C. C. N. Y. 1910.....	New York City
KATZ, ELIHU, A.B. C. C. N. Y. 1910.....	Brooklyn, N. Y.
KERLEY, JAMES HOYT, A.B. 1912.....	Brooklyn, N. Y.
KOMINZ, JACOB SAMUEL, B.S. Univ. of Rochester 1909.....	Rochester, N. Y.
KRAKOW, MOSES HYMAN.....	New York City
KUHLMAN, ALVIN EDGAR, Ph.C. 1910.....	Union, N. J.
LANDY, JOSEPH AARON, A.B. C. C. N. Y. 1910.....	New York City
LARSON, HENRY MAXWELL, JR., A.B. Colorado College 1910.....	Brooklyn, N. Y.
LELLMANN, WILFRED OTTO LOUIS.....	New York City
LUBARSKY, DAVID ARTHUR.....	New York City
MARSHALL, HYRUM LEO, A.B. Univ. of Utah 1908.....	Tooele, Utah
MCBRIDE, EARL DUWAIN, B.S. Oklahoma 1912.....	Watonga, Oklahoma
McCANN, DANIEL FRANCIS, JR., A.B. Georgetown 1910.....	Brooklyn, N. Y.
MCGREEN, FRANCIS AUGUSTINE.....	Bellows Falls, Vt.
MOORE, ROBERT BOOTH.....	Searcy, Ark.
MORRISON, WHITELAW REID, A.M. Oberlin 1910.....	Ohiopyle, Pa.
NATANSON, DAVID MORRIS, B.S. C. C. N. Y. 1910.....	New York City
NILES, FRANK LEE, B.S. Univ. of Cal. 1911.....	San Francisco, Cal.
PADDOCK, ROYCE, A.B. 1910.....	New York City

PALLEN, CONDÉ DE SALES, A.B. Georgetown 1910.....	New Rochelle, N. Y.
PARSONS, WILLIAM BARCLAY, JR., A.B. Harvard 1910.....	New York City
PASSOVER, GREGORY CONSTANTINE.....	New York City
PETERS, ANDREW, JR., B.S. 1912.....	Brooklyn, N. Y.
PHILIPS, HERMAN BYROL.....	New York City
POMEROY, FRANK KENNETH, A.B. Leland Stanford 1912.....	Palo Alto, Cal.
RAYNOLDS, RANDOLPH, A.B. Yale 1909.....	New Haven, Conn.
ROGERS, RUPERT REED, A.B. Oberlin 1910.....	Wellington, Ohio
ROSENBLÜTH, MILTON BENJAMIN, A.B. 1911.....	New York City
ROSENSON, WILLIAM, B.S. C. C. N. Y. 1910.....	New York City
RUNGE, OTTO ERNST, A.B. 1913.....	Brooklyn, N. Y.
SCUDDER, FRANK DYCKMAN, A.B. Yale 1910.....	Richmond, Va.
SEIBELS, ROBERT EMMET, B.S. Univ. of South Carolina 1910.....	Columbia, S. C.
SEULANSKY, JACOB, Ph.B. Yale 1910.....	Hartford, Conn.
SINCLAIR, DONALD BUNKER, A.B. Princeton 1910.....	New York City
SMALÉ, WILLIAM P., JR., A.B. 1912.....	New York City
SMITH, THAYER ADAMS, A.B. Dartmouth 1910.....	New York City
ST. GEORGE, ARMIN VON, Ph.C. 1910.....	Jersey City, N. J.
SULLIVAN, TIMOTHY FRANCIS XAVIER, A.B. C. C. N. Y. 1907.....	New York City
TITUS, NORMAN EDWIN, Ph.B. Yale 1910.....	New York City
VERMILYE, HERBERT NOBLE, A.B. Princeton 1910.....	Orange, N. J.
VOLOVIC, GREGORI OSSIPOVICH.....	New York City
WEISS, ADOLPH ABRAHAM, A.B. C. C. N. Y. 1910.....	New York City
WHITE, EDGAR WILLIAM, B.S. Univ. of Mich. 1912.....	New York City
WILLIAMS, JESSE FEIRING, A.B. Oberlin 1909.....	New York City
YOUNG, RALPH HOWARD, A.B. 1912.....	Newport, R. I.
Fourth Year—Class of 1914.....	71

THIRD YEAR—CLASS OF 1915

AHRENS, HERMAN FREDERICK, Ph.D., 1898.....	New York City
ALLISON, BENJAMIN ROY, B.S. Dartmouth 1911.....	Malone, N. Y.
BAKER, WILLIS POWER.....	Cranford, N. J.
BERMAN, HARRY, A.B. Yale 1913.....	Hartford, Conn.
BERMAN, LOUIS.....	New York City
BIDWELL, ALFRED MORRELL, Ph.B. Yale 1911.....	Jersey City, N. J.
BINDERMAN, SAUL ARTHUR, A.B. C. C. N. Y. 1910.....	New York City
BROKAW, RAYMOND VOORHEES.....	New York City
CABANISS, JOE TURNER, B.S. and A.M. Wake Forest 1911, 1913.....	Shelby, N. C.
CARP, LOUIS.....	New York City
CLARKE, PHILIP HENRY.....	Holyoke, Mass.
CLEVELAND, MATHER, A.B. Yale 1911.....	Denver, Colo.
CLIMAN, MAX, A.B. Yale 1913.....	Hartford, Conn.
COLP, RALPH, A.B. 1913.....	New York City
COLVIN, WILLIAM PUTNAM.....	New York City
DESNOES, PERCY HAROLD.....	New York City
DINGMAN, NORMAN MCLEOD, A.B. 1912.....	Spring Valley, N. Y.
DODD, RAYMOND CANFIELD, A.B. Williams 1911.....	Glen Ridge, N. J.
EASTON, EDWARD RAYMOND, A.B. Yale 1913.....	Granby, Mass.
ELLINGTON, AMZI JEFFERSON, B.S. Wake Forest 1913.....	Raleigh, N. C.
FELSEN, JOSEPH, A.B. C. C. N. Y. 1911.....	New York City
FRIEDMAN, WILLIAM.....	New York City
GOLDSTONE, JOSEPH, A.B. C. C. N. Y. 1910.....	New York City
GOTTESMAN, JULIUS, B.S. C. C. N. Y. 1911.....	New York City
GREENBERGER, MORRIS.....	New York City
HALSTED, HALCYON, Ph.D. Colorado State Normal School 1910.....	Greeley, Colo.
HANSEN, HARRY BEAUVOIR, Ph.G. and Ph.C. 1910.....	Weehawken, N. J.

HARTVIGSEN, HYRUM JACOB, B.S. Utah Agricultural Coll. 1913.....	Downey, Idaho
HOLZMAN, MARTIN, B.S. 1913.....	New York City
HURD, RALPH ABRAM.....	New York City
IAASON, ALFRED H., A.B. 1912.....	Brooklyn, N. Y.
IRISH, CHARLES GILBERT, A.B. Hobart 1911.....	Lancaster, N. Y.
JACOBS, ALEXANDER WILLIAM.....	New York City
JERSKEY, ABRAHAM, B.S. C. C. N. Y. 1911.....	New York City
JOHNSON, HAROLD FOOTE, A.B. Hamilton 1911.....	Oxford, N. Y.
JOHNSON, REDFORD KOHLSAAT.....	New York City
KALBFLEISCH, ERNEST LEOPOLD, B.S. St. Louis U. 1912.....	Newton, Kansas
KENNY, JOHN J., A.B. College of St. Thomas 1911.....	Mankato, Minn.
KHURI, HALIM BASIL.....	Sagbin, Syria
KLEIN, EUGENE, A.B. 1913.....	New York City
KRAMER, BERTRAM SOLOMON, B.S. C. C. N. Y. 1910.....	New York City
LADD, WILLIAM SARGENT, A.B. Amherst 1910.....	New York City
LASHER, WILLIS W.....	Germantown, N. Y.
LEVY, JEROME, A.B. 1913.....	Brooklyn, N. Y.
LEWIS, RAYMOND WILLIAMS, A.B. Yale 1911.....	New Britain, Conn.
LYON, BROCKTON REYNOLDS.....	Greensboro, N. C.
McELVARE, GEORGE GERARD.....	Brooklyn, N. Y.
McFARLAND, ARTHUR HENRY, B.S. Minnesota Univ. 1913.....	St. Paul, Minn.
McLENDON, PRESTON ARTHUR, B.S. Wake Forest 1913.....	Mowen, N. C.
MARTINSON, HERMAN, A.B. C. C. N. Y. 1911.....	New York City
MATHEWS, RAYMOND HAMILTON, B.S. N. Y. Univ. 1912.....	Jersey City, N. J.
MAYER, MAX DAVID, A.B. 1912.....	New York City
MELENEY, HENRY EDMUND, A.B. Dartmouth 1909.....	Brooklyn, N. Y.
MESSEMER, JOHN FRANCIS, A.B. St. Francis Xavier Coll. 1911.....	New York City
MICHAELS, LEO.....	New York City
MILES, SETH HERBERT, B.S. University of Nebraska 1912.....	So. Lancaster, Mo.
MUNGER, ARBOR DAY, B.S. Univ. of Nebraska 1913.....	Oelwein, Iowa
NEWFIELD, LEWIS ALFRED, Ph.B. Brown 1911.....	Brooklyn, N. Y.
NICHOLS, CHARLES FAY, A.B. Oberlin 1911.....	Watkins, N. Y.
PARDEE, IRVING HOTCHKISS, A.B. 1913.....	New York City
PRICE, JOSEPH, B.S. 1913.....	New York City
PYLE, EDWIN.....	So. Yonkers, N. Y.
REYNOLDS, ROBERT JESSE, A.B. 1912.....	Potsdam, N. Y.
RUDOLPHY, JAY BESSON.....	Hoboken, N. J.
SANDERS, THEODORE MICHAEL, A.B. 1912.....	New York City
SEIFF, HARRY JOSEPH, B.S. C. C. N. Y. 1911.....	New York City
SHUGART, FLOYD CALDWELL, B.S. Wake Forest 1913.....	Jonesville, N. C.
SLATKIN, HARRY, B.S. Oklahoma 1913.....	New York City
SMITH, ALAN DE FOREST, A.B. 1913.....	New York City
SMITH, HAROLD ELLSWORTH, A.B. Yale 1911.....	New York City
SNYDER, FRANK HASSAN, A.B. Hobart 1911, B.S. Indiana 1913.....	Geneva, N. Y.
SOBIN, JULIUS, A.B. C. C. N. Y. 1909.....	Bayonne, N. J.
STANLEY, STEPHEN TREAT, A.B. Williams College 1913.....	Norwalk, Conn.
STEARNS, WILBUR WATKINS, A.B. 1912.....	Yonkers, N. Y.
STEEL, JAMES ALEXANDER, B.S. 1911.....	Las Cruces, New Mex.
STEVENS, ALBERT MASON, A.B. Yale 1905.....	Brooklyn, N. Y.
STEVENS, NEIL CAMPBELL, A.B. Yale 1910.....	Morristown, N. J.
SUSSMAN, HENRY ALEXANDER, B.S. C. C. N. Y. 1911.....	Brooklyn, N. Y.
SWEET, WALLACE NATHANIEL, A.B. Yale 1911.....	Lebanon, Conn.
SWINDLE, ORMUND REID, A.B. Univ. of Missouri 1912.....	Stark City, Mo.
TAYLOR, HAROLD WILLIAMS, A.B. 1909.....	New York City
THOMAS, CLARENCE PROCTOR, A.B. Yale 1911.....	New York City

UNGER, JONAS J., A.B. C. C. N. Y. 1911.....	New York City
VALENSI, ALBERT, B.S. 1913.....	New York City
WAKELEY, WILLIAM EASTON, B.S. Univ. of North Carolina 1913.....	Orange, N. J.
WINTERNITZ, DAVID HENRY, A.B. Univ. of Utah 1913.....	Colorado City, Colo.
YOUNG, JOHN JOSEPH, JR., A.B. St. Francis College 1911.....	Brooklyn, N. Y.
ZION, LEWIS, A.B. C. C. N. Y. 1911.....	New York City
Third Year—Class of 1915.....	88

SECOND YEAR—CLASS OF 1916

BELL, ALFRED LEE LOOMIS (Senior Columbia College).....	Englewood, N. J.
BLANTON, WYNDHAM BOLLING.....	Richmond, Va.
A.B. Hampden Sidney 1910, A.M. Univ. of Va. 1912	
BLISS, WALTER PARKS, A.B. and A.M. Wesleyan 1909 and 1910..	Upper Montclair, N. J.
BLUESTONE, EPHRAIM MICHAEL, B.S. 1913.....	New York City
BONVICINO, LOUIS ANTHONY.....	Brooklyn, N. Y.
BOSTANIAN, KEVORK NERSES, A.B. Central Turkey College 1907...	Aintab, Turkey
BRADY, LEOPOLD (Senior Columbia College).....	Brooklyn, N. Y.
BRUNER, ABRAM BRENNEMAN, A.B. Wesleyan 1913.....	Columbia, Pa.
BULL, DAVID CHAPMAN, Ph.B. Yale 1912.....	Naugatuck, Conn.
BUTLER, CHARLES TERRY, A.B. Princeton 1912.....	New York City
CHAPMAN, WILL HARMON, Ph.B. Yale 1912.....	New Britain, Conn.
CONAN, NEAL JOSEPH, A.B. St. John's College 1910.....	Pompey, N. Y.
COX, WESLEY CINTRA, A.B. 1913.....	Brooklyn, N. Y.
DODDS, WILLIAM PAUL, Litt.B. Princeton 1912	Kingston, N. Y.
DOLD, DOUGLAS MERIWETHER.....	Astoria, N. Y.
FERRY, RONALD MANSFIELD, A.B. Harvard 1912.....	New York City
FIELD, MANNING CROMWELL, A.B. Williams 1912.....	Brooklyn, N. Y.
FISKE, PLINY BAXTER, Ph.B. Hamilton 1910.....	Byron, N. Y.
FOOTE, MERRILL NEWTON.....	Richmond Hill, N. Y.
FORTUNE, STANLEY THEODORE, A.B. Hope College 1912.....	Holland, Mich.
GOLDFARB, BARNETT, A.B. C. C. N. Y. 1912.....	Brooklyn, N. Y.
GOODGLICK, SAMUEL.....	Seattle, Wash.
GROLLMAN, MEYER, A.B. C. C. N. Y. 1912.....	New York City
HAUBEN, LOUIS (Senior Columbia College).....	New York City
HUDSON, ERASTUS MEAD, B.S. Harvard 1913.....	Plattsburgh, N. Y.
HUME, WALTER FAIRBANK, Ph.B. Yale 1912.....	Springfield, Mass.
JESSUP, EVERETT COLGATE, B.S. Princeton 1911.....	Brooklyn, N. Y.
JEWETT, CHARLES HARVEY.....	Canandaigua, N. Y.
JOHNSON, PAUL BARRUS.....	New York City
KAHN, SAMUEL, B.S. 1912.....	New York City
KUHN, ISADOR (Senior Columbia College).....	New York City
LEGGETT, THOMAS HAIGHT, JR. (Senior Columbia College).....	Plainfield, N. J.
LINTZ, JOSEPH (Senior Columbia College).....	Brooklyn, N. Y.
MAGNETTE, JULES, JR. (Senior Columbia College).....	Newark, N. J.
MAHON, HUGH W., A.B. C. C. N. Y. 1912.....	New York City
MAMELOK, LOUIS, A.B. C. C. N. Y. 1912.....	New York City
MANN, LEWIS THEODORE.....	Brooklyn, N. Y.
MCNEILE, HECTOR JAMES.....	Brooklyn, N. Y.
MELNEVEY, FRANK LAMONT, A.B. Dartmouth 1910.....	Brooklyn, N. Y.
MESSING, ARNOLD, A.B. C. C. N. Y. 1912.....	New York City
MILLER, MILTON VALENTINE, B.S. Gettysburg 1911.....	Columbia, Pa.
MORRILL, BERTON CHARLES.....	Brunswick, Maine
MORRISON, FREDERICK HOLTON, A.B. Harvard 1912.....	Newton, N. J.
NEMSER, MAXIMILIAN, Ph.C. 1912.....	New York City
NICOLSON, WILLIAM PERRIN, JR., A.B. Univ. of Georgia 1912.....	Atlanta, Ga.
O'CONNOR, ARTHUR JOSEPH.....	Brooklyn, N. Y.

OSSERMAN, HYMAN AARON, A.B. 1913.....	Edgewater, N. J.
RAMSAY, ALEXANDER DUNN, B.S., Ph.C. Vanderbilt 1907-1909....	New York City
RAND, EWING HASCALL, A.B. Yale 1911.....	Lawrence, N. Y.
RAYLE, ALBERT AMIS, JR.....	Lexington, Ga.
A.B. Mercer Univ. 1908, A.M. Univ. of Georgia 1912	
ROSENMAN, JACOB DANIEL.....	New York City
SALOMON, ALFRED VICTOR, B.S. C. C. N. Y. 1912.....	New York City
SCHLEUSSNER, ROBERT CLINTON, Ph.C. 1912.....	New York City
SCHRAM, CLARE FRED NESBIT.....	Brooklyn, N. Y.
SHIBLEY, GERALD SPENCER, A.B. 1913.....	New York City
SMITH, GROVES BLAKE.....	Godfrey, Ill.
SODERSTROM, GUSTAVE ALBIN, A.B. Upsala 1911.....	Jamestown, N. Y.
SOMMER, SYLVAN E., B.S., M.S. Cincinnati 1912-13.....	Chicago, Ill.
STADIE, WILLIAM C., B.S. and M.S. N. Y. Univ. 1907 and 1912....	New York City
STEINHOLZ, REUBEN, B.S. C. C. N. Y. 1912.....	New York City
STRUMWASSER, SAMUEL, B.S. C. C. N. Y. 1912.....	New York City
SUTLIFF, EDWARD HARRISON (Senior in Columbia College).....	Brooklyn, N. Y.
TRACEY, WILLIAM WALLACE, Ph.B. Yale 1912.....	Norwalk, Conn.
TRACY, GROVER, A.B. Gettysburg 1909.....	Lineboro, Md.
VINCENT, LEONARD MARSHALL, B.S. Colgate 1912.....	Three Mile Bay, N. Y.
WIENER, JACOB J.....	Rockaway Beach, N. Y.
WILLS, CHARLES EDWARD, A.B. Mercer Univ. 1912.....	Washington, Ga.
WILSON, JAMES (Senior Columbia College).....	Jersey City, N. J.
ZAMKIN, HARRY OSCAR, B.S. C. C. N. Y. 1912.....	New York City
Second Year—Class of 1916.....	
Seniors from Columbia College.....	
	60
	9

69

FIRST YEAR—CLASS OF 1917

ABRAMSON, FREDERICK, B.S. C. C. N. Y. 1912.....	Brooklyn, N. Y.
ANDERSON, GILBERT CHRISTIAN, A.B. Southwestern Baptist 1905....	Jackson, Tenn.
ASTARITA, MARION WILLIAM, Ph.C. 1911.....	New York City
BABBOTT, FRANK LUSH, JR., A.B. Amherst 1913.....	Brooklyn, N. Y.
BAKOVITZ, HARRY (Junior Columbia College).....	New York City
BARBERIS, ELIGIO GUETANO.....	Corona, N. Y.
BEATTY, EDWARD F., A.B. Georgetown Univ. 1913.....	Brooklyn, N. Y.
BELL, SAMUEL DENNIS, A.B. Princeton 1913.....	New York City
BERGAMINI, HERBERT MUHLENBERG, Litt.B. Rutgers 1913.....	Brooklyn, N. Y.
BICKLEY, EMIL BURTON.....	Waterloo, Iowa
BIERMAN, WILLIAM (Junior Columbia College).....	Brooklyn, N. Y.
BLANTON, HOWSON WALLACE, A.B. Hampden Sidney 1912.....	Richmond, Va.
BLAUVELT, HAROLD, B.S. Wesleyan Univ. 1913.....	New York City
BLOOD, WILKIE HOOPER, A.B. Brigham Young Coll. 1909.....	Kaysville, Utah
BONFELD, MAX LOUIS, A.B. Univ. of Alabama 1912.....	Birmingham, Ala.
BRAISLIN, WILLIAM DONALD (Junior Columbia College).....	Brooklyn, N. Y.
BULLEN, BERNARD CHRISTIE, B.S. Oklahoma A. & M. Coll. 1912....	Stillwater, Okla.
CAMPBELL, WILLIAM EDWARD, JR., B.S. Univ. of Georgia 1913.....	Atlanta, Ga.
CAVERLY, CHARLES EDWARD, JR., A.B. Univ. of Georgia 1913.....	Atlanta, Ga.
CLARK, ALBERT MERWIN, A.B. Wesleyan Univ. 1913.....	Mt. Vernon, N. Y.
CLARK, CHARLES EUGENE, A.B. St. Johns College 1913.....	Scranton, Pa.
COLLINS, HOMER GARTON.....	Myersdale, Pa.
CRANE, ALBERT LOYAL, A.B. 1913.....	New York City
DAMELIO, WILLIAM J., A.B. Manhattan Coll. 1912.....	New York City
DOLAN, DANIEL JAMES, A.B. Holy Cross Coll. 1913.....	Newark, N. J.
EISNER, MOSES NATHANIEL (Junior Columbia College).....	Poughkeepsie, N. Y.

FARNUM, WALDO B.	New York City
FERGUSON, LEE HOLLISTER, B.S. Ohio Wesleyan Univ. 1913.	Delaware, Ohio
FERN, SAMUEL SIDNEY (Junior Columbia College)	Elizabeth, N. J.
FIELD, WILLIAM HINRICHS, A.B. Williams 1913.	Brooklyn, N. Y.
FINKLESTEIN, WILLIAM, Ph.C. 1913.	New York City
FULLER, DUNCAN MAC TAVISH, Ph.B. Sheffield 1913.	New York City
GAYER, HUGH WALTERS.	New York City
GOODMAN, HERMAN (Junior Columbia College)	New York City
GREENBERG, MORRIS, A.B. C. C. N. Y. 1911.	New York City
GROSVENOR, ROBERT.	Providence, R. I.
HAFT, HENRY HARRIS, B.S. Syracuse Univ. 1913.	Brooklyn, N. Y.
HANCOCK, HEBER CHASE, B.S. Utah Agr. College 1911.	Ogden, Utah
HECK, EDSON BURR, B.S. Princeton 1913.	Jersey City, N. J.
HERMAN, HAROLD (Junior Columbia College)	New York City
HERMES, HARRY LEONARD, Ph.C. 1911.	New York City
HERRING, ALBERT CRAWFORD (Senior Columbia College)	Richmond Hill, N. Y.
HESLIN, WILLIAM FRANCIS, A.B. Fordham Univ. 1913.	Brooklyn, N. Y.
HORTON, WILLIAM STEURER.	Yonkers, N. Y.
HYMAN, HAROLD THOMAS (Junior Columbia College)	New York City
ILL, EDMUND WALDEMAR, B.S. Princeton 1913.	Newark, N. J.
ISAACS, HAROLD JOSEPH.	New York City
JACKSON, SYDNEY CHARLES.	Madison, Wis.
JOSEPHSON, EMANUEL M.	New York City
KAUFMAN, JULIUS.	Brooklyn, N. Y.
KEATING, JOHN JOSEPH, A.B. Fordham Univ. 1913.	New York City
KOHN, JEROME, A.B. C. C. N. Y. 1913.	New York City
LATTMAN, JACOB, B.S. C. C. N. Y. 1913.	New York City
LAZARUS, JOSEPH ARTHUR.	Rochester, N. Y.
LINETT, JOSEPH MORRIS.	New York City
LYNCH, JAMES A., JR. (Junior Columbia College)	New York City
LYONS, LAWRENCE VOSBURGH.	New York City
MANDEVILLE, STUART ELLSWORTH.	New York City
MARCUS, LAZARUS (Junior Columbia College)	Brooklyn, N. Y.
MEIERHOF, HAROLD LEE (Junior Columbia College)	New York City
MOORE, WALTER VAN OLINDA (Junior Columbia College)	Brooklyn, N. Y.
MORRIS, SOLOMON A., Ph.C. 1911.	New York City
MUESCH, EDWARD GEORGE, A.B. St. Francis Xavier 1912.	Brooklyn, N. Y.
NICHOLAUS, JOHN LOUIS.	Schenectady, N. Y.
NISSELSON, ABRAHAM, A.B. C. C. N. Y. 1910.	New York City
NOBLE, GEORGE HENRY, B.S. Univ. of Georgia 1913.	Atlanta, Ga.
O'DOWD, JOHN JOSEPH, A.B. St. Francis Xavier, 1912.	New York City
O'NEIL, FRANCIS J.	New York City
ORR, FRANK BROCK.	Newnan, Ga.
PINKHAM, ALBERT DAY, A.B. 1891, A.M. 1894 Bates Coll.	Whitefield, N. H.
POTTER, RAYMOND THORNTON, B.S. Wesleyan 1913.	Ellenville, N. Y.
PUDNEY, WILLIAM KENT.	Montclair, N. J.
PLYLE, JOHN HENRY, A.B. Hope College 1913.	Zeeland, Mich.
RAMSEY, GEORGE HERBERT, A.B. Rutgers 1913.	Olean, N. Y.
RANKIN, BERTRAND FRED, Ph.B. Sheffield 1913.	Corpus Christi, Tex.
REIBEL, JULIUS (Junior Columbia College)	Elizabeth, N. J.
RICE, FRANKLIN WILSON.	Brooklyn, N. Y.
RICHARDS, LLOYD, A.B. Princeton 1913.	New York City
ROBERTIELLO, ATTILIO, Ph.C. 1912.	New York City
ROCKWELL, ROBERT LOCKERBIE.	Cincinnati, Ohio
ROGERS, RONALD BACON.	Neenah, Wis.

ROTHENBERG, DAVID MEYER (Junior Columbia College).....	Brooklyn, N. Y.
SALWEN, EMANUEL (Junior Columbia College).....	Brooklyn, N. Y.
SCHMALZRIED, ELMER WILLIAM, A.B. Northwestern 1911.....	La Gro, Ind.
SCHWINZER, JOHN RODERICK.....	Brooklyn, N. Y.
SEAMAN, JAMES A.....	New York City
SIBBALD, JOHN OSWALD, C.E. Rensselaer P. I. 1906.....	Troy, N. Y.
SILBERT, SAMUEL.....	Plainfield, N. J.
SOLOVEI, SAMUEL.....	Brooklyn, N. Y.
SPENCE, PHILIP SUMNER (Junior Columbia College).....	New York City
STEINMAN, ISIDORE, Ph.C. 1913.....	New York City
STENBUCK, JOSEPH BENJAMIN, A.B. Harvard.....	Brooklyn, N. Y.
STILLMAN, WILLIAM A.....	New York City
TITLAR, RALPH S. (Senior Columbia College).....	Ossining, N. Y.
VAIL, JOHN INSLEY BLAIR, B.S. and A.M. Princeton 1910-1913..	Blairtown, N. J.
VAN DERWERKER, EARL EDWARD, B.S. Rutgers 1912.....	Schuylerville, N. Y.
VAN GAASBEEK, HAROLD (Junior Columbia College).....	Kingston, N. Y.
VLYMEN, JOHN RICHMOND, A.B. Georgetown 1912.....	Hempstead, N. Y.
VON HOPE, FREDERICK HERBERT.....	Orange, N. J.
WARE, EDWARD RICHMOND, A.B. Williams 1913.....	New York City
WEBER, JOHN WILLIAM, A.B. St. Johns Coll. Bklyn. 1913...	Cape Girardeau, Mo.
WEST, RANDOLPH, A.B., A.M. Princeton 1912-1913.....	Princeton, N. J.
WESTERMANN, JOHN JACOB, JR., A.B. Yale 1912.....	Chicora, Pa.
WHITE, PARK JERAULD, JR., A.B. Harvard 1913.....	Green Ridge, N. Y.
WILENS, IRA, B.S. C. C. N. Y. 1913.....	Brooklyn, N. Y.
WILSON, JOHN ALBERT (Junior Columbia College).....	Bentham, Eng.
WOLFF, JACOB.....	Brooklyn, N. Y.
WURM, CARL.....	New York City
YAMPOLSKY, JOSEPH, A.B. Univ. of Georgia 1913.....	Atlanta, Ga.
ZEMAN, FREDERIC DAVID, A.B. 1913.....	Brooklyn, N. Y.
First Year—Class of 1917.....	90
Juniors and Seniors from Columbia College.....	20

110

NON-MATRICULATED (SPECIAL) STUDENTS

Non-matriculated.....	32
SUMMARY	
Fourth Year—Class of 1914.....	71
Third Year—Class of 1915.....	88
Second Year—Class of 1916.....	60
First Year—Class of 1917.....	90
Non-matriculated (special) students.....	32
	341
Juniors and Seniors from Columbia College.....	29
Total.....	370

THE SCHOOLS OF MINES, ENGINEERING, AND CHEMISTRY

President BUTLER

Faculty

Dean GOETZE

Professors ARENDT, BEANS, BERKEY, BLANCHARD, BOGERT, BURNSIDE, BURR, CAMPBELL, ¹CROCKER, CURTIS, DAVIS, FISKE, FITE, FREAS, GRABAU, HALL, HARRINGTON, HAWKES, JACKSON (D.D.), JACOBY, JONES (*Secretary*), KEMP, KERN, KEYSER, KURTZ, LOVELL, LUCKE, LUQUER, MACLAY, MAYER, METZGER, MEYLAN, MILLER, MORECROFT, MORGAN (J. L. R.), MOSES, MUNROE, NORSWORTHY, PARR, PEELE, PEGRAM, PIGOTT, PRESTON, PUPIN, ²RAUTENSTRAUCH, SCHROEDER, SHERMAN (H. C.), SLICHTER, SMITH (ALEXANDER), THOMAS, TUCKER, WALKER, WENDELL, WHITAKER, WILLS, ZANETTI

COMMITTEE ON INSTRUCTION: The Dean (*Chairman*), Professors **Committee** KEMP, LOVELL, MAYER, MUNROE, WALKER, WENDELL, and WHITAKER.

Delegates to the University Council, see page 4.

The Faculty of Applied Science has charge of the following schools: **Courses**

THE SCHOOL OF MINES, with four-year courses leading to the degrees of Engineer of Mines and Metallurgical Engineer.

THE SCHOOL OF ENGINEERING, with four-year courses in Civil Engineering, Sanitary Engineering, Electrical Engineering, and Mechanical Engineering, the first two leading to the degree of Civil Engineer, and the others to the degree of Electrical Engineer and Mechanical Engineer, respectively.

THE SCHOOL OF CHEMISTRY, with four-year courses leading to the degrees of Chemist and Chemical Engineer.

These courses are intended to meet the requirements of the several professions indicated. Many of the courses permit a certain amount of specialization, particularly in the fourth year.

Candidates for a professional degree who have some special end in view are sometimes permitted to vary the regular course by substituting for the courses ordinarily prescribed, courses for other degrees offered under this Faculty. Students holding an academic degree and the corresponding engineering degree may offer work in one or more of these branches of technology either as a major or a minor subject for the degree

¹ Absent on leave 1913-1914

² Absent on leave second half-year.

of Master of Arts or Doctor of Philosophy under the Faculty of Pure Science and will be given opportunity for special study and investigation.

Requirements for Admission

(Also page 173)

Advanced Standing

The uniform first year in the Schools of Mines, Engineering, and Chemistry, and the efficient coördination of the subsequent years, make it possible for graduates of colleges and scientific schools to enter Columbia University with advanced standing and to complete the requirements for a professional degree without undue delay through conflicts and other causes. It is very desirable, however, that students in other colleges who are planning to take professional work after graduation should get into correspondence with the University as early as possible. If this is done they may receive advice with regard to the most advantageous collegiate subjects to elect, and also with regard to the summer courses of Columbia University. By taking certain summer work at the University in advance, a student sometimes may save six months or a year in entering upon his professional career.

Candidates for admission to advanced standing should make application in writing to the Chairman of the Committee on Undergraduate Admissions in time to reach him before September 7, 1914.¹ The application must be accompanied by properly certified official statements of his standing in the subjects which he offers.

The Committee will notify the candidate at the address given in his letter, between September 7 and 11, 1914, what courses, of those offered, are accepted as equivalent to courses at Columbia University. In general, the Committee gives credit for complete courses only. In cases where the work previously done by the candidate has not been accepted by the Committee, the candidate should present himself at regular fall examinations during the two weeks immediately preceding the opening of the University (in 1914, September 14-21). For courses in which no regular fall examination is held, the candidate should report at the office of the Dean. The schedule of fall examinations may be obtained from the Registrar. A fee of \$5 is charged for these examinations, to all applicants who do not take them at the regular time.

No applicant will be allowed to enter the fourth-year class as a candidate for a degree after October 15 in any year.

It is suggested that candidates who desire to make up first- and second-year subjects arrange to take courses in them in the Summer Session of

¹ When the candidate is at a considerable distance from the University, his application should be made as early as possible in order that he may receive the reply in time to present himself at the University on September 15, 1913.

Columbia University, beginning on July 6, 1915, the *Announcement* of which will be sent upon application to the Secretary of the University.

Graduates of the Schools of Mines, Engineering, and Chemistry, and of other institutions of equal grade may pursue any subjects taught in the schools for which they are properly qualified. **Special Courses**

Persons of mature age who are not graduates, but who show special qualifications, are sometimes permitted to pursue special courses, but this permission is not given to others.

REGISTRATION AND FEES (see page 46)

FELLOWSHIPS AND SCHOLARSHIPS (see page 435)

Beginning with the year 1914, the curriculum of the Schools of Mines, Engineering and Chemistry will be reorganized and the requirement for admission will be increased. Three years of specialized professional study will be offered leading to the several technical degrees granted in the Schools of Mines, Engineering and Chemistry. The requirements for admission to these schools will be the completion of at least three years of a college or scientific school course including thorough instruction in Mathematics, Physics, Chemistry, and, in addition, certain courses in Drafting, Shopwork, Surveying and Mineralogy. **New Requirement**

As a suitable preparation for this advanced work, a new course has been organized in Columbia College, leading to the degree of B.S. Half of the student's time is given to thorough sequential work in Mathematics, Physics, Chemistry. Most of the remainder is devoted to courses in English, the Modern Languages, History, Philosophy, and the Political Sciences, and there is some special work in Drafting, Surveying, etc., prerequisite to the professional programs. This course is so arranged that a well-prepared student should be able to complete it without undue strain in three years. A student who enters college at the normal age would, therefore, be able to complete the preliminary college course and the three years' professional course by the age of 23.

1. A student cannot be a candidate for more than one professional degree at the same time. **Rules**
2. A candidate for a degree must comply with all requirements in force at the time said degree is conferred.
3. A student will be permitted to substitute one subject for another provided he obtains the consent of the Dean, the heads of departments concerned, and the head of the department giving the technical instruction leading to the degree.
4. A student absent from more than one-tenth of the required exercises

will be debarred from examination in that subject. No student shall be exempt from this regulation except by action of the Committee on Instruction.

5. After examinations have been held, officers shall report to the Registrar the standing of all students who have attended their courses, in terms of the letters A, B, C, D, and F; A, B and C to be passing grades, D signifying a deficiency removable by re-examination, and F a complete failure. Reports of standing will be sent to first- and second-year students every five weeks, and to third- and fourth-year students at the end of each term. Copies of all reports are at the same time sent to the Dean, to the Faculty adviser, and in the case of first- and second-year students, to the parent or guardian. They will be sent to the parent or guardian of third- and fourth-year students only on request.

6. Regular examinations shall be held at the end of the first half-year and at the end of the second half-year in all subjects offered during those respective periods. An examination may be held at the completion of any subject which does not extend throughout the given half-year.

7. Special examinations for students deficient at regular examinations shall be held during the two weeks in September preceding the opening of the next following academic year; and for members of the fourth class in subjects belonging to that year only, during the first week in May.

Students who have been debarred and students who have received a grade of F are excluded from such examinations in accordance with the terms of the following rule:

Any student who shall have been debarred from or shall have received a grade of F in any midyear or final examination in any subject shall not be allowed to take a deficiency or make-up examination in said subject until he shall have repeated said course in class.

8. Failure to pass a Summer Session course, credit for which would be accepted as equivalent to a regular undergraduate course in the Schools of Mines, Engineering and Chemistry, shall be counted, in case a student registers for said course, as one of the three failures referred to in Rule 10.

9. The fee for special examinations is \$5 for each course, which must be paid when the application is made. For special examinations in the September series the maximum fee is \$25.

10. A student failing to pass in any subject at the regular examinations must present himself for special examination as provided under Rule 7.

Failing to pass the second examination, he must repeat the subject with the next class. Failing a third time to pass a satisfactory examination he may be dropped from the roll of the school.

11. Absence from any regular or special examination provided for in Rules 7 and 8 shall count as a failure unless excused by the Dean for reasons of weight.

12. No student having an entrance deficiency shall be permitted to register for any subject of the second, third, or fourth year without the written consent of the Dean, and no student shall be permitted to register for any subject, the prerequisites for which have not been satisfied by him unless the Dean, for reasons of weight, grants him special permission.

13. Any student who shall have passed a satisfactory examination in Columbia College in any subject forming a part of one of the professional courses in the Schools of Mines, Engineering and Chemistry, will not be required to pursue that subject a second time.

14. During vacations following the close of each year, memoirs on assigned subjects must be prepared by the students in the courses of Mining, Metallurgy, Civil Engineering, Electrical Engineering, Mechanical Engineering, Chemical Engineering, and Chemistry. The time specified for the completion and handing in of memoirs will be as stated in the respective departmental announcements.

A student failing to hand in his memoir, drawings, or other summer work at the time specified by the department in which he is registered shall be considered to have failed; to have his work received later, he will be obliged to pay a fee of \$5, as for a special examination.

15. By permission of the Dean, and concurrence of the heads of departments concerned, a student may attend subjects not required for his degree, provided such attendance does not interfere with his regular work. He must fulfil all the requirements exacted from regular students in such course.

Application for each special examination, except as provided below, must be filed at the office of the Registrar at least one week before the examination is to be taken, and in September and May at least one week before the first day of the respective examination period (in 1913-14 not later than Monday, September 8, and Thursday, April 23, respectively). For later application an additional fee of \$5 for any examination or series of examinations will be charged. Applications must be made on blanks (one for each course) to be obtained from the Registrar.

Every first-year student admitted conditionally will be held under **Probation** during the first half-year of residence. So far as possible students on probation are given the opportunity in Columbia College or in the Department of Extension Teaching to make good their deficiencies. Not later than the end of this period, the Dean, on the basis of reports from the head of each department in which the student is registered, will decide whether he shall be admitted to full standing, have his period of probation extended, or be dropped from the roll. The grade of B or higher, obtained in any subject at the end of the first half-year of residence, will be regarded as removing an entrance condition in that subject, unless the condition was incurred in a part of the subject not directly involved in

the work of the course. Any condition not so removed must be satisfied by formal examination.

Equipment Detailed information as to the laboratories, museums, collections, libraries, and other facilities for study and research will be found in the departmental statements as follows: Chemistry, page 75. Civil and Sanitary Engineering, page 80. Electrical Engineering, page 102. Geology, page 110. Mechanical Engineering, page 132. Metallurgy, page 133. Mineralogy, page 135. Mining, page 136. Physics, page 154.

SUMMARY OF PROFESSIONAL COURSES OF STUDY

NOTE: Detailed tabular arrangements of each year of these courses will be found in the *Announcement of the Schools of Mines, Engineering, and Chemistry*. (See also Departmental Statements, pages 60-172.)

First Year The curriculum for the first year of the four-year courses leading to the degrees of Engineer of Mines, Metallurgical, Civil, Electrical, Mechanical, and Chemical Engineer and Chemist is the same in every respect and the student entering the first-year class need not declare which course he will follow until the beginning of the second year, when he will have the advantage of the experience gained during the first year's work, where uncertainty exists respecting inclination or natural bent.

As will be seen in the tabular statement given below, this first year is mainly devoted to a thorough grounding in mathematics, physics, and chemistry the three fundamental subjects which form the indispensable basis for all broad and successful engineering work, not only in the remaining years of the course, but throughout the entire professional career. Specialization begins to some extent in the second year and becomes more marked in the third and fourth years.

The class is arranged in two divisions, Division B completing Engineering, Drafting and Descriptive Geometry in the first term, while Division A is completing General Inorganic Chemistry and Qualitative Analysis, the two divisions reversing the operation in the second term. This plan secures greater concentration of work; it facilitates the transfer of students to advanced standing from other institutions; and it enables well-prepared students entering in February and taking advantage of the University Summer Session to catch up with their class by the following autumn.

To secure the most effective individual instruction the class is also divided for quizzes and recitations into six, eight, and twelve sections.

<i>First Half-Year</i>		Hours per week	
		Class	Lab.
Drafting 1	Engineering Drafting	1	14
Drafting 3	Descriptive Geometry	3	
Mathematics 1	Algebra	2	
Mathematics 3	Analytical Geometry	3	2
Mechanics 1	Elementary Mechanics	2	
Phys. Educ. A	Gymnasium	5	
Physics 3	Mechanics, Wave Motion, and Heat		
Total		16	16
<i>Second Half-Year</i>			
Civil Eng. 2	Theory of Surveying	2	13
Chemistry 4	General Inorganic Chemistry	3	
Chemistry 62	Qualitative Analysis	4	
Mathematics 64	Calculus	5	2
Phys. Educ. A	Gymnasium	5	
Physics 4	Heat and Light		
Total		19	15
SUMMER WORK: Civil Eng. 15s. Five weeks of surveying practice.			

The four-year course leading to the degree of Engineer of Mines is **Mining** intended primarily to train men to undertake the development of mineral properties, the design and construction of mine plants, and to manage mines. The course includes training in metallurgy. It is necessarily a broad one, comprising a wide range of studies in pure and applied science, and for this reason is frequently taken by students desiring a general scientific training.

The subjects most emphasized in this course are mining, metallurgy, geology, and engineering.

Metallurgy requires knowledge of inorganic and applied chemistry, qualitative and quantitative analysis, and assaying.

Geology must carry with it preliminary training in crystallography, mineralogy, and petrography.

1 SECOND YEAR			2 THIRD YEAR			FOURTH YEAR		
First Half-Year								
Courses	Class	Lab.	Courses	Class	Lab.	Courses	Class	Lab.
Civil Eng. 23 Drafting 7 Geology 5 Mathematics 65 Mineralogy 1 Phys. Educ. B Physics 5	2 3 5 3 5	3 3 5 6 2	Civil Eng. 53 Civil Eng. 53 Geology 165 Mech. Eng. 13 Metallurgy 81 Mining 51	5 3 3 2 3	3 3 9 	Elect. Eng. 75 Geology 101 Mech. Eng. 17 Metallurgy 101, 111 Metallurgy 131, 141 Mining 71 Mining 73 Mining 75 Mining 81 Mining 91	1 2 3 2 3 1 4 2	3 12
Total hours	18	14		16	15		18	15
Second Half-Year								
Chemistry 66 Chemistry 82 Elect. Eng. 2 Geology 6 Mechanics 102 Mineralogy 2 Phys. Educ. B	3 3 2 3 5 3 3	12 3 2	Civil Eng. 54 Civil Eng. 64 Elect. Eng. 4 Elect. Eng. 72 Geology 4 Geology 106 Mech. Eng. 14 Mech. Eng. 80 Mineralogy 6 Mining 52 Mining 54	 1 2 1 3 3 1 2 3	3 3 3 3 3 3 3 	Civil Eng. 76 Geology 16 Geology 110 Mech. Eng. 74 Metallurgy 72 Metallurgy 122 Mining 56 Mining 72 Mining 78 Mining 80 Mining 82 Mining 94	2 2 2 3 3 3 1 2	 2 12 3
Total hours	19	17		16	18		18	17

For significance of course numbers see pages 60, 173.

¹ Summer work: Civil Engineering **27s** and **28s** (eight weeks).

² Summer work: Field work, Mining, Metallurgy, and Geology (nine weeks).

Engineering in all its branches needs a fundamental knowledge of mathematics, physics, mechanics, and thermodynamics. The proper design and construction of mining plants involve the study of certain branches of civil engineering, and the many and increasing applications of machinery to mining make it necessary to give much time to the theory and practice of mechanical and electrical engineering.

Metallurgy This course, which covers four years, is intended for those who expect to follow metallurgical work and become trained metallurgists in any of the branches of the profession. For the first two years much attention is paid to a thorough training in fundamental subjects, especially in mathematics, chemistry, physics, geology, mineralogy, and preliminary courses in engineering. In the third year instruction in metallurgy begins both by lectures and in the laboratories, while courses in engineering,

¹ SECOND YEAR			² THIRD YEAR			FOURTH YEAR		
<i>First Half-Year</i>								
Courses	Class	Lab.	Courses	Class	Lab.	Courses	Class	Lab.
Civil Eng. 23	2	3	Civil Eng. 53	5	6	Chemistry 121	3	
Drafting 7		3	Geology 105	3		Elect. Eng. 75	1	3
Geology 5	3		Mech. Eng. 13	3		Mech. Eng. 17	2	
Mathematics 65	5		Metallurgy 81	2	9	Metallurgy 77		3
Mineralogy 7	3	3	Metallurgy 101	1		Metallurgy 131	1	
Phys. Educ. B		2	Metallurgy 111	2		Metallurgy 141	1	
Physics 5	5					Metallurgy 151	2	
Physics 43		6				Metallurgy 171		9
						Metallurgy 175	1	
						Mining 73	1	
						Mining 81	4	
						Mining 91	2	
Total hours	18	17		16	15		18	15
<i>Second Half-Year</i>								
Chemistry 66	3	12	Civil Eng. 64	1	3	Chemistry 122	3	
Chemistry 82	3		Civil Eng. 78	2		Mech. Eng. 72	2	3
Elect. Eng. 2	2		Elect. Eng. 72	1	3	Mech. Eng. 76	1	3
Geology 6	3		Elect. Eng. 104	2		Metallurgy 118	1	
Mechanics 102	5		Geology 4		3	Metallurgy 128	1	
Mineralogy 8	3	3	Geology 106	3		Metallurgy 138	1	
Phys. Educ. B		2	Mech. Eng. 14	3		Metallurgy 148	1	
			Mech. Eng. 60		3	Metallurgy 158	1	
			Metallurgy 122	3		Metallurgy 172		6
			Mineralogy 6		3	Mining 80	1	
			Mining 54	3		Mining 82		3
						Mining 94	2	
Total hours	19	17		18	15		14	15

For significance of course numbers see pages 60, 173.

¹ Summer courses: Civil Engineering **27s** (five weeks); Civil Engineering **28s** (three weeks).

² Summer courses: Metallurgy **66s** (three weeks); Metallurgy **64s** (three weeks); Geology **112s** (one week).

especially mechanical engineering, chemistry, and geology, are also provided for. The fourth year is devoted largely to advanced courses in metallurgy, and great stress is laid on giving, by laboratory work, familiarity with difficult high-temperature conditions of metallurgy, skill in microscopy and pyrometry, and training in execution and in the interpretation of the results developed. At the same time attention is devoted to the higher branches of engineering and chemistry and to important courses in mining engineering which are considered necessary.

In the summer schools, carefully arranged courses in general surveying, in railroad work, geological field work, and visits to metallurgical works are provided for. In the six weeks' summer courses at metallurgical works, the students are required to carefully study processes, make di-

mentioned sketches of furnaces and mills, and by observation and instruction are given a thorough understanding of metallurgical operations as conducted at the present time.

Civil Engineering

The courses of study given in the Department of Civil Engineering are so formulated as to constitute broad educational training of a profes-

1 SECOND YEAR			2 THIRD YEAR			FOURTH YEAR		
First Half-Year								
Courses	Class	Lab.	Courses	Class	Lab.	Courses	Class	Lab.
Botany 7	1	3	Astronomy 105	3		Civil Eng. 75	3	
Drafting 5		3	Civil Eng. 21	1		Civil Eng. 85	2	
Mathematics 65	5		Civil Eng. 51	2	3	Civil Eng. 87	2	3
Mech. Eng. 13	3		Civil Eng. 53	5	3	Civil Eng. 89	3	3
Mineralogy 5	2	3	Civil Eng. 53		3	Civil Eng. 97	3	
Mining 53	2		Civil Eng. 59	2		Elect. Eng. 5	1	
Phys. Educ. B		2	Civil Eng. 61	2	3	Elect. Eng. 75	1	3
Physics 43	5		Mech. Eng. 17	2		Mech. Eng. 41	1	3
Physics 43		3	Mech. Eng. 77	1	3	Mech. Eng. 63		3
Shopwork 15		3						
Total hours	18	17		18	15		18	18
Second Half-Year								
Chemistry 82	3		Astronomy 106	1	3	Civil Eng. 88	2	3
Drafting 6		3	Civil Eng. 52	3	3	Civil Eng. 90	3	3
Drafting 8		6	Civil Eng. 54		3	Civil Eng. 94	2	
Elect. Eng. 2	2		Civil Eng. 58	3	3	Civil Eng. 100	3	3
Geology 18	3	*3	Civil Eng. 62	2	3	Elect. Eng. 112	2	3
Mech. Eng. 14	3		Elect. Eng. 4	2		Law 2	2	
Mechanics 102	5		Elect. Eng. 72	1	3	Mech. Eng. 46	3	
Metallurgy 134	2		Mech. Eng. 18	2				
Phys. Educ. B		2	Mech. Eng. 78	3				
Physics 44		3						
Shopwork 16		3						
Total hours	18	18		17	18		17	12

For significance of course numbers see pages 60-173.

*Saturday afternoon during April and May, equivalent 1 hour.

¹ Summer work: Civil Engineering **25s** (five weeks).

² Summer work: Civil Engineering **26s**; Astronomy **107s** (five weeks); Civil Engineering **71s** (four weeks).

sional character for students intending to follow the practice of civil engineering or such other affiliated callings as may be based more or less upon the various branches of civil engineering. These courses of study can be taken more advantageously if the student has had a preliminary general training equivalent to that of an ordinary college course, although that condition is not a requisite. Through these courses of study there is set forth a thorough grounding in the fundamental principles of engineering

science as the first essential, supplemented, however, by constant exercises in the application of those fundamental principles to all the operations of the civil engineer, involving structures, machines, and processes connected with the adaptation and transmission of power for industrial and other purposes.

The course in Sanitary Engineering is a differentiation from the regular course in Civil Engineering and naturally leads, therefore, to the same degree. The first year is identical with the first year of other engineering courses, while the second year is almost identical with the regular second-year work of the course in Civil Engineering. The special extensions in

**Sanitary
Engineering**

1 SECOND YEAR			2 THIRD YEAR			FOURTH YEAR		
First Half-Year								
Courses	Class	Lab.	Courses	Class	Lab.	Courses	Class	Lab.
Botany 7	1	3	Chemistry 79	2	6	Chemistry 79		6
Chemistry 65	2	6	Chemistry 41	2		Civil Eng. 57a	2	
Drafting 5		4	Civil Eng. 21	1		Civil Eng. 57b		
Math. 65	5		Civil Eng. 51	2	3	Civil Eng. 75	4	
Mech. Eng. 13	3		Civil Eng. 53	5	3	Civil Eng. 85	2	
Mineralogy 5	2	2	Civil Eng. 53		3	Civil Eng. 87	2	3
Phys. Educ. B		2	Civil Eng. 59	2		Civil Eng. 89	3	3
Physics 5	5		Civil Eng. 61	2	3	Civil Eng. 97	2	
Physics 43		3				Mech. Eng. 17	2	
						Mech. Eng. 63		3
Total hours	18	17		16	18		17	15
Second Half-Year								
Chemistry 76		3	Chemistry 78	2	3	Civil Eng. 90	3	3
Chemistry 82	3		Civil Eng. 52	3		Civil Eng. 94	2	
Drafting 8		6	Civil Eng. 54		3	Civil Eng. 96	3	
Elect. Eng. 2	2		Civil Eng. 58	3	3	Civil Eng. 100		6
Geology 18	3	*3	Civil Eng. 62	2	3	Elect. Eng. 76	1	3
Mechanics 102	5		Elect. Eng. 4	2		Law 2	2	
Mech. Eng. 14	3		Elect. Eng. 72	1	3	Mech. Eng. 76	1	3
Metallurgy 134	2		Mech. Eng. 78	3		Mech. Eng. 82	3	
Phys. Educ. B		2						
Physics 44		3						
Shopwork 16		3						
Total hours	18	16		16	15		15	15

For significance of course numbers see pages 56-168.

*April and May—Geology, equivalent to 1 hour.

¹ Summer work: Civil Engineering 25s (five weeks).

² Summer work: Civil Engineering 26s (five weeks); Civil Engineering 71s (four weeks).

sanitary work are developed in the third and fourth years. It will be found that these sanitary subjects are set forth so as to cover in a thorough and comprehensive way those special fields occupied by the sanitary en-

gineer of the present day. They include the sanitary treatment of water supplies and sewage with special work extended both by lectures and laboratory work into biology and bacteriology standard laboratory methods in the sanitary administration of public water supplies, drainage, heating, and ventilation and the general principles of sanitary science, public health, and hygiene. These sanitary specialties are of advanced character, covering the latest investigations in such special work as daily bacterial tests of potable water for public purposes, the extermination of mosquitoes and other disease-carrying insects, the improvement of public health conditions found in cities and towns, the drainage and sanitary treatment of lands and the sanitary administration of buildings and industrial establishment liable to create nuisances. A graduate, therefore, of this course is qualified to enter the advanced practice of sanitary engineering in all its special fields.

Electrical Engineering

The objects for which the regular four-year course in Electrical Engineering is designed and the education which it is intended to give are fully set forth in the *Announcement*.

1 SECOND YEAR			2 THIRD YEAR			FOURTH YEAR		
First Half-Year								
Courses	Class	Lab.	Courses	Class	Lab.	Courses	Class	Lab.
Chemistry 65	2	6	Civil Eng. 53	5	3	Chemistry 183	2	3
Drafting 5		3	Civil Eng. 53		3	Elect. Eng. 103	3	
Mathematics 65	5		Civil Eng. 77	2		Elect. Eng. 105	3	
Mech. Eng. 13	3		Elect. Eng. 101	3		Elect. Eng. 109	1	
Phys. Educ. B		2	Elect Eng. 173		6	Elect. Eng. 175	1	6
Physics 5	5		Mech. Eng. 17	2		Elect. Eng. 177	1	6
Physics 43		3	Mech. Eng. 41	1	3	Mech. Eng. 53	2	
Physics 55	2		Mechanics 105	2		Mech. Eng. 77	1	3
Shopwork 13		3	Mechanics 107	2		Mechanics 109	4	
Total hours	17	17		17	15		18	18
Second Half-Year								
Chemistry 82	3		Economics 2	3		Elect. Eng. 54	2	3
Drafting 6		3	Elect. Eng. 52	2	3	Elect. Eng. 98		
Drafting 8		6	Elect. Eng. 104	3		Elect. Eng. 106	2	
Elect. Eng. 2	3		Elect. Eng. 174	1	6	Elect. Eng. 108	1	2
Mech. Eng. 14	3		Mech. Eng. 18	2		Elect. Eng. 110	1	
Mechanics 102	5		Mech. Eng. 36		6	Elect. Eng. 112	2	
Metallurgy 134	2		Mech. Eng. 76	1	3	Elect. Eng. 176	1	6
Phys. Educ. B		2	Mechanics 108	3		Mech. Eng. 56	1	
Physics 44		3				Mech. Eng. 60		3
Shopwork 14		3				Mech. Eng. 72	2	3
						Mechanics 110	3	
						Phys. 52	1	
Total hours	16	17		15	18		16	17

For significance of course numbers see pages 56-168.

² Summer work: Summer memoir.

¹ Summer memoir.

The first two years of the course are devoted to the fundamental subjects, including mathematics, physics, chemistry, mechanics, drawing, and certain electrical and mechanical engineering subjects which are elementary or introductory in character.

These fundamental and introductory subjects are intended to lay a broad and substantial foundation upon which the more specialized professional instruction of the third and fourth years is based. Even in these later years theoretical subjects, such as thermodynamics and electrical theory, are included and given most careful attention.

The first two years of this course are devoted to essential preparatory and fundamental subjects, mathematics, chemistry, physics, analytical mechanics, and drawing, which are coördinated with kinematics, elementary design, shopwork, and the elements of electrical and steam engineering. In the third year there are developed the basic principles of thermodynamics, resistance of materials, and hydraulics, which are fixed

1 SECOND YEAR			2 THIRD YEAR			FOURTH YEAR		
First Half-Year								
Courses	Class	Lab.	Courses	Class	Lab.	Courses	Class	Lab.
Drafting 7		3	Civil Eng. 53	5	3	Elect. Eng. 103	2	
Mathematics 65	5		Elect. Eng. 73		3	Elect. Eng. 105	2	
Mech. Eng. 11	3		Elect. Eng. 101	2		Mech. Eng. 19	3	6
Mech. Eng. 35		3	Mech. Eng. 17	2		Mech. Eng. 21	4	3
Mech. Eng. 59	2	3	Mech. Eng. 31	1	3	Mech. Eng. 25	2	3
Phys. Educ. B		2	Mech. Eng. 39	3	3	Mech. Eng. 33	2	3
Physics 5	5		Mechanics 105	2		Mech. Eng. 45	3	
Physics 43		3	Shopwork 11		6			
Shopwork 1		6						
Total hours	15	20		15	18		18	15
Second Half-Year								
Chemistry 82	3		Civil Eng. 54		3	Elect. Eng. 76	1	3
Elect. Eng. 2	2		Civil Eng. 78	2		Economics 2	3	
Mech. Eng. 12	3	3	Elect. Eng. 104	3		Law 2	2	
Mech. Eng. 36		3	Mech. Eng. 18	2		Mech. Eng. 20	3	6
Mechanics 102	5		Mech. Eng. 32	1	3	Mech. Eng. 26	2	6
Metallurgy 134	2		Mech. Eng. 40		9	Mech. Eng. 50	3	
Phys. Educ. B		2	Mech. Eng. 54	2		Mech. Eng. 52	3	
Physics 44		3	Mech. Eng. 64	2				
Shopwork 2		3	Mech. Eng. 66	1				
Shopwork 12		6	Mech. Eng. 70	2				
			Mech. Eng. 60					
			Metal. 156	1	3			
Total hours	15	20		16	18		17	15

For significance of course numbers see pages 56-168.

¹ Summer work: Shopwork 10s, 125 hours in College shops; Mech. Eng. 94s, six weeks' practical work in shops and drafting rooms of manufacturing establishments, with report: a total of nine weeks.

² Summer work: Mech. Eng. 96s (six weeks' practical experience in power plant with report).

in the mind of the student by drill in the drafting room by design courses, in the laboratory by experiments and tests, and in class by analysis of standard mechanical and electrical machinery. The fourth year is devoted to a detailed treatment of gas and steam engine design, standard water turbine characters, and the essential relations between units constituting power plants and factories. Special attention is here paid to economics of mechanical engineering by courses in industrial law, economics, and works management. Throughout the course the aim is to develop clear conceptions of underlying principles, habits of independent thought and orderly mental procedure applicable to any sort of mechanical engineering problems rather than to the memorization of isolated facts. The training given not only fits the student to take up the design of machinery and the perfection of processes of doing things by mechanical means, but also to take ultimately a leading place in the management of the manufacturing and transportation industries.

Chemical Engineering

The course in chemical engineering, as will be seen, is designed to educate chemists with a sufficient amount of engineering to fit them to take

1 SECOND YEAR			2 THIRD YEAR			FOURTH YEAR		
First Half-Year								
Courses	Class	Lab.	Courses	Class	Lab.	Courses	Class	Lab.
Chemistry 41	2	12	Civil Eng. 53	5	3	Chemistry 121	3	6
Chemistry 81	3		Chemistry 83	3	Chemistry 171	2		
Chemistry 163	3		Chemistry 101	2	Chemistry 197			
Mathematics 65	5		Chemistry 49	2	Mech. Eng. 97	5		
Mineralogy 15			Mech. Eng. 11	3	Mech. Eng. 17	2		
Phys. Educ. B		2	Mech. Eng. 59	2	3	Mech. Eng. 37	1	3
Physics 5	5					Mech. Eng. 77	1	
Physics 43		3				Metallurgy 101,		
						111	3	
						Metallurgy 131	1	
Total hours	18	20		17	15		18	15
Second Half-Year								
Chemistry 42	2	12	Civil Eng. 54		3	Chemistry 88		9
Chemistry 82	3		Civil Eng. 76	2	Chemistry 122	3	3	
Chemistry 164	3		Chemistry 84	3	Chemistry 184	2	3	
Elect. Eng. 2	2		Chemistry 102	2	Chemistry 198	3		
Mechanics 102	5		Elect. Eng. 4	2	Mech. Eng. 18	2		
Mineralogy 16		3	Elect. Eng. 72	1	3	Mech. Eng. 76	1	3
Phys. Educ. B		2	Law 2	2		Metallurgy 122	3	
Physics 44		3	Mech. Eng. 12	3	3			
			Metallurgy 182	2	6			
Total hours	15	20		17	15		14	18

For significance of course numbers see pages 56-168.

¹ Summer work: Chemistry **80a**, 1 week; Shopwork **18s** (three weeks in June).

² Summer work: Chemistry **80b**, visits to industrial plants, 2 weeks; Chemical factory work with memoir (six weeks).

charge of chemical works which depend largely on the use of machinery. This requires a knowledge of mechanical engineering, electrical engineering, hydraulics, mechanical drawing, shopwork, etc., as well as a thorough knowledge of chemistry in all its branches.

The regular four-year course of instruction is designed for the education of professional chemists who intend to devote their lives to the practice of this profession, either as teachers in colleges and scientific schools, after further preparation, or as chemists or research chemists in manufacturing and other industrial enterprises.

The course in chemistry includes not only all branches of theoretical, analytical, and industrial chemistry, but also collateral sciences, such as mathematics, mechanics, physics, mineralogy, metallurgy, mechanical and electrical engineering, and drawing, which have been found by ex-

Chemistry

1 SECOND YEAR			2 THIRD YEAR			FOURTH YEAR		
First Half-Year								
Courses	Class	Lab.	Courses	Class	Lab.	Courses	Class	Lab.
Chemistry 41	2	12	Chemistry 83	3	3	Chemistry 23	4	
Chemistry 81	3		Chemistry 101	2		Chemistry 143		
Chemistry 163	3		Chemistry 121	3		Chemistry 167		
Mathematics 65	5		Chemistry 171	2		Chemistry 89		
Mineralogy 15			Chemistry 175	2		Chemistry 141		
Phys. Educ. B		2	Chemistry 183	2	3	Chemistry 43M	3	3
Physics 5	5					Metallurgy 101,		12
						111	3	
						Metallurgy 131	1	
Total hours	18	17		14	18		11	15
Second Half-Year								
Chemistry 42	2	12	Chemistry 84	3	9	Chemistry 142	3	
Chemistry 82	3		Chemistry 88			Metallurgy 122	3	
Chemistry 164	3		Chemistry 102	2		Thesis—		
Elect. Eng. 2	2		Chemistry 122	3		Chemistry 126		
Mechanics 102	5		Chemistry 182	2		Chemistry 144	4	
Mineralogy 16		3	Mineralogy 10	2	3	Chemistry 168		15
Phys. Educ. B		2				Chemistry 206		
						Chemistry 222		
						Chemistry 242		
						Chemistry 262		
						Chemistry 272		
						Chemistry 282		
Total hours	15	17		12	18		10	15

For significance of course numbers see pages 56-168.

¹ Summer work: Chemistry 80a, memoir. ² Summer work: Chemistry 80b, memoir.

perience to be required by the professional chemist. It is the intention to provide the graduate not only with a thorough knowledge of the principles and practice of chemistry in all its branches, but with such a broad and liberal education in the collateral sciences as will prepare him for every demand that will be likely to be made upon him in connection with his profession or in the pursuit of investigation.

REGISTER OF STUDENTS

Schools of Mines, Engineering and Chemistry

FOURTH YEAR—CLASS OF 1914

MINING ENGINEERING

BARRETT, THEODORE HARVEY.....	Richmond Hill, N. Y.
BIRD, HENRY EDGAR, JR.....	Mt. Vernon, N. Y.
BISSELL, ROBERT WILSON, Ph.B. Pa. Mil. Inst. 1886, B.S.E.M. Univ. Wash. 1912..	
.....	New York City
BRISTER, CHARLES MELVILLE, JR., B.S. Va. M. I. 1911.....	Petersburg, Va.
CAMPBELL, DONALD GEORGE, B.S. Whitman, 1912 A.M. 1913.....	Atlanta, Idaho
CORNELISSEN, JOHN.....	Springfield, Mass.
EICHRODT, CHARLES WHARTON, A.B. Ind. Univ. 1911.....	Indianapolis, Ind.
FEDERMAN, SAMUEL.....	New York City
FOX, WALTER VICTOR.....	New York City
GOLDMAN, JOSEPH L.....	New York City
GOLDMAN, PAUL.....	New York City
GRIEVE, RICHARD PALMER.....	New York City
GRUNOW, WILLIAM RANALD, B.S. 1912.....	New York City
HADSELL, IRVING WHITNEY.....	New York City
HOYT, DONALD CHESTER.....	Chillicothe, Ohio
KURZ, JOHN B.....	New York City
LEE, LELAND VANCE.....	Monterey, Mexico
MACCARTHY, CHARLES FRANKLIN.....	Denver, Colorado
MAMPEL, CHARLES J.....	New York City
MANÈS, RENÉ ACHILLES FRANCIS.....	New York City
MEISSNER, CLARENCE EDWARD.....	New York City
MILLER, JAMES SHEERWOOD.....	Hoosick Falls, N. Y.
NARAVANE, SANKAR GOVIND.....	Poona, India
NELSON, NED EUGENE, B.S. C.E. Purdue 1907.....	Lowell, Indiana
PAGE, GEORGE R., B.S. E.M. Penn State 1913.....	Pittsburgh, Pa.
PATTERSON, GEORGE SCHROTER.....	New York City
PULLEYN, JOHN WILLIAM, A.B. 1912.....	New York City
RADE, HENRY SIGMUND, A.B. 1912.....	New York City
RICHTER, CHARLES.....	New York City
SALSBURY, MILTON.....	New York City
SCHURMAN, GEORGE WALTER.....	New York City
SEN, JANSHI TSOO EN, B.S. Peking 1908.....	Kwei Chow, China
STEFFEN, GUSTAVE W.....	New York City
WARD, NORMAN B.....	Montclair, N. J.
WILLIAMS, EDWARD INGHAM.....	New York City
WORK, JOHN CLINTON, N.A. Glasgow 1905.....	Oyster Bay, N. Y.
YABLICK, MAX.....	Newark, N. J.
ZIMMER, SIEGFRIED H.....	New York City

METALLURGY

BLAUT, SAMUEL JOSEPH.....	New York City
COLQUHOUN, WILLIAM WALLACE.....	Tunbridge Wells, Eng.

MORSE, HENRY EASTMAN, B.S. Univ. Calif. 1911.....	Berkeley, California.
OLDRIGHT, GEORGE LESLIE.....	Anaconda, Mont..
QUINN, HERMAN.....	Great Neck, N. Y.
SADTLER, CHESTER BENJAMIN.....	Denver, Colorado.
WONG, WILLIAM A., E.M. Col. Sch. Mines 1913.....	Honolulu, Hawaii
WOOD, ROY UDELL.....	New York City
WOODWORTH, SELIM E.....	Berkeley, California

CIVIL ENGINEERING

BRAVERMAN, LEWIS.....	New York City
CASSIDY, JAMES CLARKE.....	New York City
CLEARY, C. NORMAN.....	New York City
COHEN, ISAAC T., B.S. C. C. N. Y. 1912.....	New York City
CRAFT, LAVERNE R.....	New York City
CREAMER, WILCOX A.....	New York City
FAIRBAIRN, RUSSELL ARNOLD, A.B. 1912.....	New York City
FRIEDMAN, WILLIAM.....	New York City
FURSTENWALDE, HENRY CURT, A.B. 1911.....	New York City
GRETSCH, HERBERT.....	New York City
HAVENS, WILLIAM WESTERFIELD.....	New York City
KAUFMAN, WILLIAM.....	Paterson, N. J.
KREFELD, WILLIAM JOHN.....	New York City
LAPIDUS, ARON.....	New York City
LICHTENSTEIN, LOUIS.....	New York City
LUNDBORG, HERBERT C.....	New York City
MASON, HENRY HOELZLE.....	New York City
MAZE, MONTGOMERY, JR.....	New York City
NACHT, VICTOR.....	New York City
NOSITZER, GEORGE.....	New York City
OHLSEN, WILLIAM C.....	New York City
QUATTLEBAUM, SELBY, B.S. So. Carolina 1909.....	Columbia, S. C.
RENSHAW, ALFRED.....	Noroton, Conn.
RICHARDSON, GEORGE WASHINGTON, JR.....	New York City
ROBERTS, RICHARD BLEVIN, JR.....	New York City
SLADE, ERNEST BEVERLY.....	New York City
STEVENS, HERBERT CHESTER.....	Passaic, N. J.
UNGARLEIDER, MAX EMANUEL.....	New York City

ELECTRICAL ENGINEERING

COBB, FRANCIS CUTTER.....	St. Paul, Minn.
ELSASSER, HENRY WOLFGANG, B.S. 1912.....	New York City
FISHER, SYDNEY.....	So. Ockenden, England
FOSTER, JOSEPH TURNER.....	Jersey City, N. J.
GOLDSTEIN, WILLIAM MORRIS.....	New York City
KOUKOL, CLEMENT J.....	New York City
MULLEN, FRANK BERCHMANS, B.E.E. Cooper 1912.....	New Rochelle, N. Y.
NOLTE, ALBRECHT CHARLES.....	New York City
PADDOCK, LINCOLN, A.B. 1910.....	New York City
RICE, ISAAC L., JR.....	New York City
SAALBERG, HERMAN STERN.....	New York City
SMITH, STANLEY WATSON.....	New York City
WILSON, LEROY.....	New York City

MECHANICAL ENGINEERING

BEARD, JAMES THOMAS, JR., A.B. 1912.....	New York City
DOYLE, WILLIAM L. H.....	Buffalo, N. Y.
GARDNER, FRANCIS SALTUS.....	New York City

HARRIS, ROBERT WILLIAM.....	New York City
HARVEY, WILLIAM JOHN.....	New York City
HOLTZMAN, PAUL J.....	Indianapolis, Ind.
JARECKIE, EDWARD ALBERT.....	New York City
LATHROP, THOMAS SPENCER.....	Yonkers, N. Y.
PETERSEN, ARTHUR EMMANUEL.....	Monmouth Beach, N. J.
PIPEROUX, RENÉ PIERRE.....	Jersey City, N. J.
ROBINSON, CHARLES R.....	St. Louis, Mo.
SCHMIDT, FRANCIS BERTRAM.....	New York City
SENGSTAKEN, JOHN HENRY.....	New York City
STEWART, JAMES ALEXANDER.....	New York City

CHEMICAL ENGINEERING

ALEXANDER, JOSEPH J., B.S. C. C. N. Y. 1911.....	New York City
BYRON, OSCAR.....	Jersey City, N. J.
CHUN, YEN-SHOU.....	Canton, China
COHEN, MORTIMER, J.....	New York City
DITTMER, JOSEPH CLAUDIUS.....	New York City
DRUCKER, SAMUEL.....	New York City
GERSHON, VICTOR.....	New York City
HARRISON, GEORGE ISIDORE.....	New York City
HENDERSON, HAROLD GOULD, JR. A.B. 1910.....	New York City
KIEFER, KENNETH HALL.....	Bridgeport, Conn.
KIRSCHSTEIN, JULIUS.....	New York City
LANDMAN, EVERETT SOLOMON.....	New York City
MACDONALD, FRANCIS.....	New York City
MANDLE, HENRY H.....	New York City
MASSON, HENRY JAMES.....	New York City
O'KANE, ROBERT GUY.....	New York City
OLT, HENRY.....	New York City
SCHWARZ, MAURICE WESSEL.....	New York City
SEE, MILTON, JR.....	Mt. Vernon, N. Y.
SPALTHOFF, WILLIAM D.....	Forest Park, N. Y.
STEIN, JEROME DAVID.....	New York City
TENNEY, DWIGHT.....	Montclair, N. J.
WURSTER, WILLIAM FREDERICK.....	New York City
ZIA, ZAU CHEE.....	Shanghai, China

CHEMISTRY

EHRLICH, JACOB.....	New York City
GILBERT, FREDERICK BOYÉ.....	New York City
HARRIS, CLARENCE PEAVY.....	New York City
SIEGLER, LOUIS.....	New York City

FOURTH YEAR—CLASS OF 1914

Mining Engineering.....	38
Metallurgy.....	9
Civil Engineering.....	24
Sanitary Engineering.....	4
Electrical Engineering.....	13
Mechanical Engineering.....	14
Chemical Engineering.....	24
Chemistry.....	4

MINING ENGINEERING

ANDERSON, BARCLAY G.....	Berkeley, California
BEATTY, RUSSELL LAWRENCE.....	New York City
BOHLIN, HOWARD GRANVILLE.....	Ridgefield Park, N. J.
BRANDENBURG, HARRY.....	New York City
CALDER, NORMAN L.....	Johannesburg, So. Africa
COLLINGWOOD, DOUGLAS MOORE.....	Halifax, Nova Scotia
COOPE, GEORGE FREDERICK.....	New York City
EYOUB, DJEVAD B.S.....	Constantinople, Turkey
FRANKEL, SAMUEL.....	New York City
FRENCH, HERBERT JAMES.....	New York City
GEORGE, HARRY L.....	New York City
KLEIN, KARL F.....	New York City
LIVINGSTON, WILLIAM SMITH, JR.....	New York City
MARGON, SOLOMON.....	New York City
MAUL, WILLIAM F.....	New York City
MYLIUS, LOUIS AUBREY.....	Winnipeg, Manitoba
NIGHMAN, C. EDWIN.....	Bayonne, N. J.
ORMSBEE, RANDALL HOLDEN.....	El Paso, Texas
PELL, VAN DYNE.....	New York City
THOMAS, JAMES A., JR.....	New York City
WELSH, FRANCIS DE SALES.....	South Amboy, N. J.
WRIGHT, FREDERICK SYLVESTER.....	Belt, Montana

METALLURGY

ALDEN, JOHN WOODS.....	Newark, N. J.
BENSON, REYNOLDS.....	New York City
CURWEN, GEORGE BARR.....	Salem, Mass.
HOWRY, HAMILTON HUBBARD.....	Denver, Colorado

CIVIL ENGINEERING

ATKINSON, GUY.....	New York City
BELKNAP, BENJAMIN HAROLD.....	Leonia, N. J.
BORSUK, ROBERT.....	New York City
BOYLE, CORNELIUS A.....	New York City
BROPHY, FRANCIS PATRICK.....	Yonkers, N. Y.
BUNCKE, HARRY JACOB.....	New York City
CARNELLI, CHARLES MICHAEL.....	New York City
CARNER, SAMUEL.....	New York City
CARROLL, JOHN JOSEPH.....	North Pelham, N. Y.
CONTRERAS, CARLOS.....	Mexico City, Mexico
VON DEESTEN, ARTHUR PETER.....	Queens, N. Y.
DONNELLY, RICHARD V.....	New York City
EDEBOHLS, FRANK EDWARD.....	New York City
FUHRER, OSCAR ARPAD.....	New York City
GOLDMAN, MORRIS ROBERT.....	New York City
GREENBURG, LEONARD.....	New York City
GREENLEAF, DONALD LEAL.....	Orange, N. J.
HOLLMANN, RICHARD F.....	New York City
JOVESHOF, ARTHUR.....	New York City
KNOPF, SAMUEL H.....	New York City
KRAUS, WALTER F.....	New York City
LAGUARDIA, GIOVANNI B.....	New York City
LAUBSCHER, OSCAR PHILIP.....	Ft. Wayne, Ind.
LEVY, JULIUS.....	New York City
McKENNA, JOHN ARTHUR, JR.....	Westbury, N. Y.

MECHANIC, JACOB.....	New York City
MILLMAN, ISIDOR SAMUEL.....	New York City
MONTGOMERY, PHILIP O'BRYAN.....	Elizabethtown, Ky.
MURRAY, EDWARD WILLIAM.....	New York City
OLMSTED, CLARENCE E.....	Los Angeles, California
O'REILLY, WILLIAM T.....	New York City
ORTHEY, GEORGE FREDERICK.....	New York City
PADDOCK, EUGENE H.....	New York City
PECK, JOHN SANFORD.....	New York City
PICCIRILLI, PASQUALE JOSEPH.....	New York City
PINCUS, SOL.....	New York City
RAABIN, HERMAN DAVID.....	New York City
ROSALSKY, MURRAY DANIEL.....	New York City
SCALES, SAMUEL BREWSTER.....	Jersey City, N. J.
SCHUMANN, CHARLES HENRY, JR.....	New York City
SCHWARTZ, ABRAHAM.....	New York City
SIMMONDS, FRANK H.....	Yonkers, N. Y.
STEVENS, CLARENCE ELLSWORTH.....	Newark, N. J.
WEYANT, JOHN AUGUSTUS.....	Yorktown, N. Y.
WILLIAMSON, ROBERT GORDON.....	Greenwich, Conn.
WOHLGEMUTH, MAURICE WILLIAM.....	New York City

ELECTRICAL ENGINEERING

BAENA, LOUIS CARLOS.....	Barranquilla, Colombia
BALMFORD, J. ARTHUR.....	New York City
BINDER, ALBERT AUGUSTUS.....	Leonia, N. J.
BLANCHARD, DONALD D.....	New York City
DICKIE, DOUGLAS PERRY.....	New York City
FAILLA, GIOACCHINO.....	New York City
HAMDI, ABDULLAH FEYZI.....	Constantinople, Turkey
JAQUES, SANDFORD.....	New York City
MÜLLER, CHARLES ALBERT.....	Hawthorn, N. Y.
REID, WILLIAM EGLINTON.....	New York City
SMITH, IRVING DAVID.....	Harriman, N. Y.
VON SOTHEN, CARL ERNEST HERMAN.....	New York City
STONE, CLARENCE GEORGE, JR.....	Mt. Vernon, N. Y.
WOOLFOLK, ROPER BLACKERBY.....	Ashland, Va.

MECHANICAL ENGINEERING

ALLEN, HAROLD FELTON.....	Washington, D. C.
BARNABY, RALPH STANTON.....	New York City
BARTLETT, JOHN HOWARD, JR.....	Orange, N. J.
BLEECKER, ANTHONY LISPENARD.....	New York City
CRAMP, ARNOLD P.....	New York City
EICHENBERG, MARK A.....	Jacksonville, Florida
FRIEDRICH, PAUL ERNEST.....	New York City
GARDNER, EDWARD MERRILL.....	New York City
GARRISON, WYCKOFF LAWRENCE, B.S. Dartmouth 1912.....	New York City
GORDON, WILLIAM EDWARD.....	New York City
HAWK, KARL WHITTINGTON.....	Belvidere, N. J.
HILDRETH, CHARLES LEWIS, JR.....	Southampton, N. Y.
HINE, RUSSELL CURTIS.....	Cornwall, N. Y.
HOWARD, JAMES E.....	Rye, N. Y.
JEANNERET, ANDRÉ.....	East Rutherford, N. J.
JOHNSON, JAMES WENDELL.....	Oswego, N. Y.
KING, HAROLD BECKWITH.....	Sound Beach, Conn.

268 SCHOOLS OF MINES, ENGINEERING, CHEMISTRY

LACAZETTE, ALFRED A, B.S. Havana Inst. Sci. 1907, C.E. Cornell, 1913.	Havana, Cuba
LAUBER, HUBERT CROW	Baltimore, Md.
LEVY, LASAR	Odessa, Russia
LUM, SAMUEL CLARK, JR.	Elizabeth, N. J.
MUMFER, NORRIS M., Ph.B. Dickinson 1912.	Trenton, N. J.
PELTZ, GORDON MILLIGAN	New York City
RAYENS, CHARLES ERWIN	New York City
ROCHÉ, JEAN ALFRED	New York City
ROLAND, PERCY W.	New York City
ROTKOWITZ, HARRY SOLOMON. A.B. C. C. N. Y. 1912.	New York City
SPALDING, SAMUEL CLYDE	New Rochelle, N. Y.
STORK, WILFORD L., B.S. C. C. N. Y. 1912.	Jersey City, N. J.
WELLING, LINDSAY HOWE	New York City
WHITE, WALLACE, A.B. 1913.	New York City
ZAVIDOVICH, MORRIS M.	New York City

CHEMICAL ENGINEERING

ALTENBERG, LEO	New York City
BALL, DAVID SPENCER, A.B. 1913.	New York City
BODZINER, JOSEPH	New York City
BROPHY, WILLIAM EDWARD	Yonkers, N. Y.
CLOUD, CHARLES BLAKE	Tyringham, Mass.
ELIAS, NATHAN M.	New York City
ESSER, ALVAH ERNEST	Yonkers, N. Y.
GLIMM, WILLIAM FREDERICK, JR.	Jersey City, N. J.
HARTIG, SIEGFRIED H., B.S. 1912.	New York City
HIRSCH, IRVING	Newark, N. J.
MUESER, EMIL	New York City
PENFIELD, RICHARD GUSTAVUS	New York City
SILLIMAN, HALSEY ERNEST	New York City
SOHON, FREDERICK WYATT	New York City
SPRINGER, WILLIAM MOORE	New York City
STEHLBY, ERNEST THEODORE	New Rochelle, N. Y.
STONE, RICHARD HENRY	West Lafayette, Ind.
TAYLOR, THEODORE CLINTON	Mt. Vernon, N. Y.
WEBSTER, JAMES CLARENCE, A.B. Western Reserve 1912.	Cleveland, Ohio
WOODWELL, CAROLUS S., B.S. 1912.	East Hampton, Conn.

CHEMISTRY

BARNETT, ABRAHAM	New York City
GOLDSTEIN, JACOB COLUMBUS	New York City
HARWOOD, HAROLD ROBERT	Tenafly, N. J.
HORTON, JEFFERSON ALLEN	New York City

THIRD YEAR—CLASS OF 1915

Mining Engineering	22
Metallurgy	4
Civil Engineering	42
Electrical Engineering	14
Mechanical Engineering	32
Chemical Engineering	20
Chemistry	4
Sanitary Engineering	4

SECOND YEAR—CLASS OF 1916

MINING ENGINEERING

ARMSTRONG, JAMES ANDREW BRUCE.....	New York City
ARMSTRONG, JOSEPH W.....	New York City
BANKS, REGINALD MARSH.....	New York City
BECKWITH, ALBERT J. (Senior in Columbia College).....	New York City
BIRKETT, HOWARD.....	New York City
BRADFORD, HARRISON J.....	Burlington, N. J.
BRATTON, W. NORMAN.....	Cordova, Alaska
COBDEN, PHILIP EDWARD.....	Larchmont, N. Y.
COWAN, WILLIAM.....	New York City
FEARN, HEWITT ONDERDONK.....	Abangarez, Costa Rica
JOSEPH, PAUL E., B.S. Trinity (Conn.) 1913.....	Broad Brook, Conn.
KELLEHER, CORNELIUS.....	Yonkers, N. Y.
KENVIN, T. BIRCHARDE.....	Gary, Ind.
KLUGESCHREID, WALTER PETER.....	New York City
LEE, TSING LUNG.....	Hunan, China
MCCONNELL, GLENVER, A.B. Marietta 1911.....	Macksburg, Ohio
MACMILLAN, HERBERT.....	Jersey City, N. J.
MILYKO, ALEXANDER.....	New York City
MOORE, ELMER WILLIAMS, B.S. Colgate 1912.....	Flushing, N. Y.
NAGELBERG, J. LEO, B.S. C. C. N. Y. 1913.....	New York City
SCHLOSS, JOHN MALCOLM.....	New York City
WEBB, TORREY HORD.....	New York City
WENSLEY, ROGER LYTLE.....	New York City
WORMSER, FELIX EDGAR.....	New York City

METALLURGY

BEAM, JOHN W.....	Denver, Colo.
BLEIL, CLARENCE J.....	New York City
MANDELL, AMBROSE J. (Senior in Columbia College).....	New York City
WILLEY, HOWARD.....	Mt. Upton, N. Y.

CIVIL ENGINEERING

ACKERMAN, RUDOLPH WILLIAM.....	Hartsdale, N. Y.
ARCE, JOSÉ M.....	Santo Domingo, Costa Rica
ARONESCU, LEON I.....	New York City
BLOCK, MARTIN.....	New York City
BONART, COLMAN I.....	Houston, Texas
BOWERS, STEWART W.....	New York City
VAN BUREN, MAURICE P. (Senior in Columbia College).....	New York City
BUTLER, HERBERT FULLER.....	New Rochelle, N. Y.
COME, MERRILL INGRAHAM.....	New York City
CURRY, TRUMAN MINOR, JR.....	New York City
DIEKMANN, WILLIAM HERMAN.....	New York City
FELDMAN, LOUIS.....	New York City
GLADSTEIN, JOSEPH.....	New York City
GROMAN, SOLOMON.....	New York City
GROSSMAN, HERMAN.....	New York City
HUTTON, HAROLD STEPHENS.....	West Nyack, N. Y.
JAUSS, RAYMOND.....	Congers, N. Y.
KANE, DANIEL COUGHLIN.....	New York City
KUCHAR, JOSEPH JAROMIR.....	New York City
LANCE, WILLIAM.....	Tomkins Cove, N. Y.
DE LIMA, MARCELLO FRANCISCO.....	Sao Paulo, Brazil
LUCAS, ANTHONY FITZ-GERALD, JR.....	Washington, D. C.

270 SCHOOLS OF MINES, ENGINEERING, CHEMISTRY

LUK, SHIU C., B.S. Tri-State.....	Tientsin, China
LUKASHOK, JACOB GREGORY.....	New York City
MCCOY, GEORGE T., A.B. Whitman.....	Walla Walla, Wash.
MEDINE, SIMON.....	New York City
MERCKEL, FREDERICK.....	New York City
MOELLER, LEWIS NICHOLAS.....	New York City
MONAGHAN, THOMAS.....	New York City
NABOSHEK, DAVID.....	New York City
NEINKEN, MORTIMER L.....	New York City
NEVITT, HENRY GLAVIS.....	New York City
NYLAND, FRITZ C. (Senior in Columbia College).....	Glen Ridge, N. J.
PALMER, HERBERT M.....	New York City
PHIPPS, FRANCIS HARLOE (Senior in Columbia College).....	Mt. Vernon, N. Y.
POSNER, HARRY, B.S., C.E. Miss. A. & M. 1911.....	West Point, Miss.
RENARD, FREDERICK ARTHUR.....	New York City
ROCKMAN, ALEXANDER S.....	New York City
ROMEO, DONATO.....	New York City
SCHIFFMAN, CHARLES DAVID.....	New York City
SIEGEL, MILTON.....	New York City
SMILARI, MANLIO A., B.S. C. C. N. Y. 1911.....	New York City
STRANG, JOHN ARTHUR.....	Jersey City, N. J.
WALKER, WILLIAM FARQUHARSON.....	New York City
WIDDER, JOHN ARTHUR.....	Mt. Vernon, N. Y.
ZUCKERMAN, SOLOMON.....	New York City

ELECTRICAL ENGINEERING

BARTH, ERNEST ALBERT (Senior in Columbia College).....	New York City
BAXTER, CHANNING WHEELER.....	New York City
BERNSTEIN, DAVID MEYER.....	New York City
BISCHOFF, HENRY WILLIAM.....	New York City
BROADWIN, SAMUEL.....	New York City
CARROLL, JOHN DUDLEY, A.B. Johns Hopkins 1912.....	Portland, Ore.
COWEN, EDWARD A., A.B. Princeton 1913.....	New York City
CURRY, WALTER AUGUST.....	New York City
DE VECCHI, PAOLO, JR.....	New York City
ELTZ, GEORGE J., JR.....	New York City
GABRIEL, JOHN CECIL.....	Gardiner, N. Y.
GUTERMAN, HERBERT.....	New York City
VON HEIMBURG, FRED.....	New York City
KING, FRANK.....	New York City
MYERS, OSCAR BLAIR.....	Mt. Vernon, N. Y.
PASCARELLA, ANTHONY JOSEPH.....	Emerson, N. J.
RETAILLACK, JOHN B.....	St. Louis, Mo.
SCHULTZ, OTTO GEORGE.....	New York City
TAYLOR, DONALD WILLIAM.....	New York City
UNDERHILL, EDWARD M. (Senior in Columbia College).....	Fishkill, N. Y.

MECHANICAL ENGINEERING

BARTON, VICTOR NATHAN.....	Cedarhurst, N. Y.
BRIZZOLARA, ROBERT.....	New York City
BUCKWALD, HARRY MILTON.....	New York City
BUNZL, WALTER GUS.....	New York City
CAMPBELL, HAROLD ANDREW, B.S. Dartmouth 1911.....	St. Albans, Vt.
DOBSON, GEORGE GARDNER.....	Brockport, N. Y.
DOWLING, LAURENCE.....	New York City
GLEESON, JOHN MAURICE.....	New York City

GREENWALD, LOUIS.....	New York City
HANLON, JOSEPH T., A.B. Loyola 1912.....	Baltimore, Md.
HARPER, PHILIP STRICKLAND.....	Islip, N. Y.
HAYES, ERNEST ALBERTUS.....	New York City
HENRY, ALEXANDER STEWART, JR.....	New York City
JACOBS, HENRY LAWRENCE.....	New York City
JOHN, GEORGE HENRY JR.....	New York City
JOHNSON, S. TAYLOR, JR.....	Croton, N. Y.
JONES, VINCENT LEROY.....	Mt. Vernon, N. Y.
MORCH, JOHN.....	New York City
NIELSEN, LAWRENCE H. (Senior in Columbia College).....	New York City
PILNACEK, EDWARD A.....	New York City
RASORI, FERRUCCIO.....	New York City
SPIRO, GEORGE CLINTON.....	New York City
WEAVER, ERNEST W.....	New York City
WITZELL, PAUL JOHN.....	New York City
ZINS, MAX.....	New York City

CHEMICAL ENGINEERING

ALLEN, EDWIN THOMAS.....	Buffalo, N. Y.
ALPERIN, JACOB.....	New York City
BERRY, SYDNEY GRISWOLD.....	Montclair, N. J.
BEYER, HAROLD WETMORE.....	New York City
BLOCH, JAMES JOSEPH.....	New York City
BOWMAN, JOHN HAROLD.....	New York City
FLYNN, KIRTLAND.....	New York City
FRIEDMANN, JOHN MILTON.....	New York City
FUNKE, CARL ALBERT DANIEL.....	New York City
GAMPERT, LOUIS.....	New York City
GERTZ, MAX.....	Jamaica, N. Y.
GROTEN, FRANK, JR.....	Paterson, N. J.
HANCHETT, ARNOLD C.....	Salt Lake City, Utah
HARDING, WILLIAM JOHN JR.....	New York City
HARVITT, ADOLPH (Senior in Columbia College).....	New York City
HEATH, JAMES NEWTON.....	Paterson, N. J.
HOOKE, WILLIAM HENRY.....	New York City
HUBBELL, JOHN P., A.B. Williams 1912.....	Garden City, N. Y.
KEMPE, NORMAN WILLIAM FREDERICK.....	Newark, N. J.
KILBOURNE, KENNETH ALEXANDER.....	Seattle, Wash.
KIRKPATRICK, HAROLD C.....	New York City
LAMBERT, NOAH D.....	New York City
LANE, LESTER BARKER.....	Peekskill, N. Y.
MICHAELSON, ARTHUR G.....	New Rochelle, N. Y.
MONELL, LEON MASON, Ph.G. Coll. Pharm. 1911.....	Binghamton, N. Y.
MURPHY, GEORGE B. (Senior in Columbia College).....	New York City
NEFF, LAMBERT GILMAN.....	New York City
NUSIN, SOLOMON IRVING.....	New York City
PETERS, FRAZIER FORMAN.....	New York City
PETERSON, CHESTER W. (Senior in Columbia College).....	New York City
PRESSNER, SAMUEL.....	New York City
RANDOLPH, ALAN F., B.S. Princeton 1913.....	Plainfield, N. J.
SEITZ, JULIUS EMILE, JR.....	Newark, N. J.
SMITH, ARTHUR.....	Port Chester, N. Y.
STEFFENS, JOHN ALFRED, Phar.D. Sch. Pharm. 1910.....	New York City
STEINBRUCH, HERMAN.....	New York City
VALENTINE, KENNETH S. (Senior in Columbia College).....	Jamaica, N. Y.

272 SCHOOLS OF MINES, ENGINEERING, CHEMISTRY

VOLLMER, DAVID WILBERT.....	New York City
WATSON, CUTHBERT M., A.B. 1913.....	West New York, N. J.

CHEMISTRY

BALLENTINE, ALMYR COOPER.....	Newark, N. J.
GETZOV, SAMUEL.....	New York City
MELBERG, HYMAN.....	New York City

SECOND YEAR—CLASS OF 1916

Mining Engineering.....	24
Metallurgy.....	4
Civil Engineering.....	46
Sanitary Engineering.....	1
Electrical Engineering.....	20
Mechanical Engineering.....	25
Chemical Engineering.....	39
Chemistry.....	3
	<hr/>
	162

FIRST YEAR—CLASS OF 1917

UNIFORM FIRST YEAR

ABKARIAN, VICTOR S.....	New York City
AMY, ERNEST VALENTINE.....	New York City
ANGER, EDWIN L.....	New York City
ARMSTRONG, CLIFTON.....	New York City
ASTROM, WALTER BIRGER.....	New York City
ATEN, COURTENAY.....	New York City
BANKS, HENRY W., A.B. Williams 1913.....	Sound Beach, Conn.
BARRETT, JULIAN B.....	Baltimore, Md.
BAU, CHINGLING.....	Shanghai, China
BEATTY, LAWRENCE RICHMOND.....	New York City
BECK, EDWARD FREDERICK WILLIAM.....	Pelham, N. Y.
BENOWITZ, HARRY.....	New York City
BERG, PHILIP.....	New York City
BERGMANN, CARL A. O.....	New York City
BERSON, JACOB.....	New York City
BILLSBORROW, RALPH E.....	Paterson, N. J.
BLAUSTEIN, MAURICE.....	Yonkers, N. Y.
BOHM, HOWARD W.....	New York City
BOUTON, DEAN GREGORY.....	New York City
BOWES, ALMON N.....	New York City
BRADLEY, LYMAN C.....	Mt. Vernon, N. Y.
BRADLEY, WAYLES B.....	Mt. Vernon, N. Y.
BRAGG, EDWARD H.....	Mt. Vernon, N. Y.
BROE, EDGAR PETER.....	New York City
BROWN, DAVID L.....	Bayonne, N. J.
BRUECKEMANN, EARL C.....	Newark, N. J.
BUARQUE, PAULO M.....	Larchmont Manor, N. Y.
BURCHELL, JOHN ARCHIBALD.....	New York City
BURNHOLZ, HENRY S.....	New York City
CANAVAN, PATRICK FRANCIS.....	New York City
CARLSTROM, CLAUDE W.....	New York City
CHASTAGNER, PHILIPPE J. P.....	Yonkers, N. Y.
COLSTEN, ROBERT.....	Binghamton, N. Y.
CONANT, THOMAS W.....	Dollar Bay, Mich.

CONNELL, JOHN H., JR.	New York City
CONSTANT, S. VICTOR	Yonkers, N. Y.
CONTI, ANTONIO M.	Yonkers, N. Y.
COOK, JAMES J.	Herkimer, N. Y.
COUNTISS, FRED N.	Chicago, Ill.
CUMMINGS, B. RAY	New York City
DEAN, F. LINCOLN	New York City
DEYO, HENRY B.	Poughkeepsie, N. Y.
DIXON, MAX MULLER, Litt.B. Princeton 1913	Washington, D. C.
DOBIE, DUNCAN A., JR.	New York City
DONOHU, JAMES B.	New York City
DUNN, DANIEL E.	New York City
ELLIOTT, ARTHUR C., JR.	Montclair, N. J.
FISHER, DANIEL	New York City
FOLKOFF, ROBERT O.	New York City
FREUND, GUSTAVE LOUIS	New York City
FRIEDBERG, MOSES	New York City
FRIEDMAN, AARON	New York City
GACHOT, CHARLES A. J., JR.	New York City
GAINSBORG, EDWARD C.	New York City
GARDNER, WILLIAM H. P.	New York City
GATELY, THOMAS J.	New York City
GATJE, FREDERICK CHRISTOPHER	New York City
GEDNEY, AUSTIN H.	Mamaroneck, N. Y.
GERSCH, EMANUEL	New York City
GOLDBERG, SIMON	New York City
GOLDFINGER, HENRY	New York City
GREENE, HARDING U.	New York City
HAGEMAN, DONALD	New York City
HAIGHT, JAMES POLLOCK, JR.	New York City
HAUK, CHARLES	Yonkers, N. Y.
HAYWARD, CHARLES L.	New York City
HEILMAN, LOUIS A.	New York City
HENRY, WILLIAM	New York City
HERMSDORF, RICHARD PAUL	New York City
HEYMAN, MORRIS	New York City
HILDEBRAND, H. EDWARD	New York City
HOCHETTE, HENRY E.	New York City
HOEHN, ALFRED J.	New York City
HOWELL, SIDNEY I.	East Orange, N. J.
HUNT, ROY LINCOLN	New York City
HUTCHINSON, JOHN	New Rochelle, N. Y.
JACKSON, EDWARD C.	Yonkers, N. Y.
JACKSON, LIONEL JAMES	New York City
JACOBSON, GEORGE	New York City
JAROLEM, HENRY	New York City
JAVITZ, ALEXANDER E.	New York City
KASANOF, DAVID	New York City
KIMBALL, ALDEN	New York City
KIRCH, WALTER L.	New York City
KLADIVKO, HUGO	New York City
KLEIN, HARRY	New York City
KLEIN, SAMUEL HENRY	New York City
KLUPT, ALEXANDER E.	New York City
KRACKOV, HERMAN L.	New York City

274 *SCHOOLS OF MINES, ENGINEERING, CHEMISTRY*

KRAUS, EDGAR.....	New York City
KRETZMER, JOHN.....	New York City
KRNO, JOHN M.....	New York City
LAHM, WALTER.....	New York City
LANDAU, MORRIS.....	Leonia, N. J.
LANZETTA, JAMES J.....	New York City
LAPLUME, JOHN.....	Havana, Cuba
LAWLER, JAMES R.....	Pelham, N. Y.
LEMMON, WALTER S.....	New York City
LESHENSKY, HARRY W.....	New York City
LEVY, JOSEPH I.....	Bayonne, N. J.
LEWIN, GEORGE JONAS.....	New York City
LIBERTHSON, LEO.....	Yonkers, N. Y.
LISS, SAMUEL STANLEY.....	New York City
LONDONO, RODOLFO.....	Colombia, S. A.
LOOK, HOWARD W.....	New York City
LOORAM, MATTHEW M.....	New Rochelle, N. Y.
MCCARTHY, THOMAS.....	New York City
MCCRAY, LYNN MORRIS.....	Los Angeles, Cal.
MCINTOSH, ROY E.....	Bothneau, N. Dak.
McMILLIN, FRANK E., JR.....	New York City
MAASS, HAROLD.....	New York City
MACKIE, SUMNER W.....	Albany, N. Y.
MAHLER, PAUL.....	New York City
MALLORY, WALTER H.....	Castleton, N. Y.
MANNING, JAMES.....	Little Falls, N. Y.
MARQUARDT, WILLIAM C.....	New York City
MARX, ERNEST A.....	New York City
MAURER, WILLIAM R.....	New York City
MERRILL, STANLEY CLIFFORD.....	New York City
MESSING, MORRIS.....	New York City
MILLER, DAVID W.....	New York City
MITZENIUS, WALTER L.....	Bayonne, N. J.
MOLDENKE, EDEL.....	Watchung, N. J.
MONFRIED, ABRAHAM ALBERT.....	Yonkers, N. Y.
MOORE, RICHARD R.....	New York City
MOSKOWITZ, MEYER.....	New York City
MUNROE, ROBERT KING.....	New York City
MUSHEKIN, EDWARD.....	New York City
NEUMER, OTTO.....	New York City
NOBLE, JAMES K.....	Yonkers, N. Y.
NORTON, ALWIN WOOD.....	New York City
ORR, SAMUEL JOSEPH.....	Savannah, Georgia
PALEN, HENRY W.....	New York City
PARK, JOHN.....	Nyack, N. Y.
PETZEL, CHARLES LAWRENCE.....	New York City
PICCIONE, GARIBALDI J.....	New York City
PINES, WILLIAM.....	New York City
PLACÉ, LOUIS V., JR.....	Havana, Cuba
PONEMONE, IRVING W.....	New York City
PREUSS, PELTON G.....	Mt. Vernon, N. Y.
PRINGLE, JOSEPH G.....	New York City
PRÖMMEL, HAROLD W. C.....	Mexico City, Mexico
REICHHARD, LEONARD G.....	New York City
RITCHIE, EDMUND W.....	New York City

RODMAN, NICHOLAS.....	New York City
ROSS, FRANK U.....	New York City
ROSSI, GUIDO MARIO.....	Rome, Italy
SALZER, MARTIN.....	New York City
SAMMIS, WALTER H.....	Hempstead, N. Y.
SAUL, BENJAMIN.....	New York City
SAVER, REYNOLDS.....	New York City
SCHAD, FRED.....	New York City
SCHANGER, JACOB.....	New York City
SCHUDE, JULIUS W.....	Mount Vernon, N. Y.
SCHMIDT, EDGAR AUGUST.....	New York City
SCHRENKEISEN, RAYMOND M.....	New York City
SCHWIND, EVERETT E.....	New York City
SCRIBNER, GEORGE K, A.B. Princeton 1913.....	Boonton, N. J.
SEIFERLING, KURT F. J. A.....	Brooklyn, N. Y.
SELIKOWITZ, WILLIAM.....	New York City
SENGSTAKEN, CHARLES WILLIAM.....	New York City
SHERIDAN, SANSFIELD J.....	New York City
SHIELDS, HAROLD.....	Philadelphia, Penna.
SILVERMAN, ISADOR.....	Yonkers, N. Y.
SIMON, SAMUEL B.....	New York City
SMITH, BERT R.....	New York City
SMITH, HENRY BOYNTON.....	Northampton, Mass.
SMITH, HENRY C.....	New York City
SOKOLOFF, ABRAHAM N.....	New York City
SOKOMSKY, JACOB.....	New York City
SOMMERVILLE, WILLIAM B., JR.....	New York City
SPORN, PHILIP.....	New York City
SPRUNG, JOSEPH.....	New York City
SQUIRES, LAWRENCE WENDELL.....	Good Ground, N. Y.
STARBUCK, FRED IRVING.....	White Plains, N. Y.
STHINER, CHARLES IGNATIUS.....	New York City
STOIBER, ARTHUR F., A.B. Harvard 1911.....	New York City
STONE, MEYER.....	New York City
SWANTON, ALLAN F.....	New York City
TAMBURRELLI, HECTOR.....	New York City
TARTT, PHILLIPS B.....	Leonia, N. J.
TESSOHN, ISIDOR.....	New York City
THOMPSON, ROBERT ALEXANDER.....	New York City
TICHBORNE, HERBERT M.....	Mt. Vernon, N. Y.
TINOCO, ARTURO.....	San Jose, Costa Rico
TITCOMB, JOHN.....	New York City
TITUS, HUBERT J.....	Schenectady, N. Y.
TJLATTAS, ANASTASSIOS.....	Theologos Thassos, Greece
TONJES, CARL.....	New York City
TRUBEK, LEO.....	Carlstadt, N. J.
TUCKER, GORDON.....	Great Neck Station, N. Y.
VALDERRAMA, M. ALFREDO.....	New York City
VALVERDE, ROBERT.....	New York City
VAUGHAN, GEORGE W.....	Mt. Vernon, N. Y.
VAUGHAN, WILBUR S.....	Roselle, N. J.
WALLACH, JOSEPH CAROL.....	New York City
WALSH, MALCOLM.....	New York City
WALTER, MAURICE.....	New York City
WEGENER, JOHN U.....	New York City

WILSON, GEORGE.....	New York City
WILSON, REGINALD F.....	Geneva, N. Y.
WOLFSON, ABRAHAM.....	New York City
YEN, CHWANG, B.S. Chinese Natl. Inst. 1910.....	Shensi, China
YOKELSON, SAMUEL C.....	New York City
ZABRISKIE, CHARLES LEMAIRE.....	New York City
ZINN, MILFORD L.....	New York City
ZUEGE, HERMAN WILLIAM.....	New York City

SPECIAL STUDENTS

BAER, JOSEPH, Lieut. U. S. N.....	Salisbury, Mo.
BARKER, WILLIAM CYRUS, Lieut. U. S. N.....	Salt Lake City, Utah
BOUVILLIAN, CLAUDE ALBERT.....	New York City
BOWEN, HAROLD GARDINER.....	Providence, R. I.
BRADT, HARLAN HURLBUT.....	Pittsburgh, Pa.
BRUCE, BRYSON, Lieut. U. S. N.....	Garden, Grove, Iowa.
DALTON, JOHN.....	North Adams, Mass.
DOHM, GILBERT CHARLES.....	New York City
DUNN, CHARLES ALFRED, Lieut. U. S. N.....	Coeur d'Alene, Idaho.
DYER, HORACE TYLER.....	Greenwich, Conn.
EVANS, JOSEPH SIMPSON, Lieut. U. S. N.....	Pelham, N. Y.
FINKEL, HARRY.....	Jersey City, N. J.
FRELLSEN, RAYMOND FOSS, Lieut. U. S. N.....	Waterloo, Iowa
FURLONG, WILLIAM REA.....	Roscoe, Pa.
GALLAGHER, FRANCIS JAMES.....	New York City
HALLIDAY, SEYMOUR EDWARDS.....	Austin, Texas.
HAMMOND, PHILIP HUSTON, Lieut. U. S. N.....	Talladega, Ala.
HIRD, HARRY BOOTH, Lieut. U. S. N.....	Forest Grove, Oregon
HORNER, RALPH BURROUGHS, Lieut. U. S. N.....	Denver, Colo.
INGRAM, EDWARD G.....	Grand View, N. Y.
JOHNSON, ROBERT MCL.....	Newark, N. J.
KEPLER, CHESTER HENRY JOHN.....	Newtonville, Mass.
LOWELL, ROBERT TRAILL SPENCE, Lieut. U. S. N.....	Dongan Hills, N. Y.
MCCLENAHAN, JAMES STANLEY.....	Toms River, N. J.
MCGREW, JAY C.....	New York City
MAGEE, JAMES F.....	Lancaster, Pa.
NAVARRO, JOSÉ FELIX.....	Medellin, Columbia
O'CONNOR, GEORGE WATSON.....	New York City
SIEBENMORGEN, WILLIAM.....	Garwood, N. J.
SMITH, OLIN K.....	Indianola, Iowa
SPENCER, LANE HART, B.S. Princeton 1913.....	South Orange, N. J.
THIBAUT, LOUIS FRANCIS, Lieut. U. S. N.....	Winsted, Conn.
WARE, BRUCE RICHARDSON.....	Newton, Mass.
WISHAAR, WILLIAM PITTS.....	Washington, D. C.
WOOD, F. ELLIOTT.....	Rutherford, N. Y.

SUMMARY

	Second Year	Third Year	Fourth Year	Totals
SCHOOL OF MINES:				
Mining Engineering.....	24	22	38	84
Metallurgy.....	4	4	9	17
SCHOOL OF CHEMISTRY:				
Chemistry.....	3	4	4	11
Chemical Engineering.....	39	20	24	83
SCHOOL OF ENGINEERING:				
Civil Engineering.....	46	42	24	111
Sanitary Engineering.....	1	4	4	9
Electrical Engineering.....	20	14	13	47
Mechanical Engineering.....	25	32	14	71
	162	142	130	433
FIRST-YEAR CLASS.....				207
SPECIAL STUDENTS.....				37
TOTAL.....				677
Seniors from Columbia College.....				12

FACULTIES OF POLITICAL SCIENCE, PHILOSOPHY AND PURE SCIENCE

Special attention is called to the separately printed pamphlet entitled "Faculties of Political Science, Philosophy and Pure Science," which may be had upon application to the Secretary of the University.

POLITICAL SCIENCE

Faculty President BUTLER

Dean WOODBRIDGE

Professors BEARD, BOTSFORD, CHADDOCK, ¹CLARK, DEVINE, DUNNING, GIDDINGS, ¹GOODNOW, GUTHRIE, JOHNSON, LINDSAY, MCGIFFERT, ¹MOORE, (J. B.), MOORE (H. L.), MUSSEY, OSGOOD, POWELL (*Secretary*), RATHGEN, ROBINSON, ROCKWELL, SCHUMPETER, SEAGER, SEL GMAN, ¹SHEPHERD, SHOTWELL ²SIMKHOVITCH, SLOANE, SMITH (MUNROE), ²SUZZALLO, TENNEY, Professor DUNNING (Term expires 1914) *Elected Delegate to the University Council*

Committee STANDING COMMITTEE ON INSTRUCTION: Professors SELIGMAN (*Chairman*), DUNNING, MUNROE SMITH, GIDDINGS and SHOTWELL.

Delegates to University Council, see page 4.

General Statement The Faculty of Political Science, established in 1880, has charge of the university courses of instruction and research in political and social science, including history, economics, public law and comparative jurisprudence. Any duly matriculated university student is at liberty to combine courses of study and investigation under this Faculty with courses offered by other Faculties of the University. Women who hold a baccalaureate degree are admitted to the School of Political Science as students in history, economics and social science and may become candidates for the higher degrees.

Students are received either as candidates for the degrees of Master of Arts and Doctor of Philosophy (see "Regulations for University Degrees," page 186, *et seq.*), or as "non-matriculated students," to pursue special or partial courses.

Courses For information regarding the courses offered in 1913-14 see statement under groups of subjects, as follows:

Economics and Social Science, page 91.

¹ Absent on leave 1913-14.

² Absent on leave first half-year.

History and Political Philosophy, page 118.

Politics, Public Law, and Comparative Jurisprudence, page 91.

For more detailed accounts of the courses and for the tender of 1913-14, application should be made for the Announcement of the Division of *History, Economics and Public Law*.

PHILOSOPHY

President BUTLER

Faculty

Dean WOODBRIDGE

Professors ADLER, AYRES, BAGSTER-COLLINS, BAKER, BEWER, BOAS, BREWSTER, BROWN (FRANCIS), ²BUSH, CARPENTER, CATTELL, COE, COHN, DEWEY, DUTTON, EGBERT, ERSKINE, FARRAND, FLETCHER, ¹FULLERTON, GERIG, GOTTHEIL, HALL, HERVEY, HIRTH, JACKSON, KNAPP, KRAPP, ²LAWRENCE (*Secretary*), LIVINGSTON, LODGE, LOISEAUX, ²MCCREA, ²McMURRY, MACVANNEL, MATTHEWS, MILLER (D. S.), MONROE, MONTAGUE, MOORE (F. G.), PERRY, PITKIN, PRINCE, ²REMY, RUSSELL, SACHS, SAVILLE, STURTEVANT, THOMAS, THORNDIKE (A. H.), THORNDIKE (E. L.), TODD, TOMBO, TRENT, WEEKS, WHEELER, WOODWORTH, YOUNG

STANDING COMMITTEE ON INSTRUCTION: Professors CALVIN THOMAS **Committee** (*Chairman*), DEWEY, PRINCE, FLETCHER and MONROE

Delegates to the University Council, see page 4

The Faculty of Philosophy, established in 1890, has charge of the university courses of instruction and research in philosophy, psychology, education, anthropology, philology, and letters. Any duly matriculated university student is at liberty to combine courses of study and investigation under this Faculty with courses offered by other Faculties of the University. **General Statement**

Students are received either as candidates for the degree of Master of Arts and Doctor of Philosophy (see "Regulations for University Degrees," page 186, *et seq.*), or as "non-matriculated students," to pursue special or partial courses.

For information regarding the courses offered in 1913-14, see departmental statements as follows: **Courses** **Anthropology**, page 63. **Classical Philology** (including Archaeology and Epigraphy), page 83. **Education**, page 95. **English and Comparative Literature**, page 104. **Germanic Languages**, page 112. **Oriental Languages: Chinese**, page 141; **Indo-Iranian**, page 141; **Semitic**, page 143. **Philosophy and Psychology**, page 147. **Romance Languages**, page 162. **Science of Language**, page 142.

For more detailed accounts of the courses and for the tender of 1913-14

¹ Absent on leave 1913-1914.

² Absent on leave second half-year.

application should be made for the divisional *Announcement of Ancient and Oriental Languages; Modern Languages and Literatures; Philosophy, Psychology, and Anthropology*; and of Teachers College.

PURE SCIENCE

Faculty President BUTLER
Dean WOODBRIDGE

Professors BEANS, BLANCHARD, BOGERT, BRITTON, BURTON-OPITZ, BURR, CALKINS, COLE (*Secretary*), CRAMPTON, ¹CROCKER, CURTIS, DAVIS, DEAN, DODGE, FISKE, FITE, GIES, GRABAU, HARPER, HAWKES, HUNTINGTON, JACOBY, JOHNSON (D. W.), ²KASNER, KEMP, KEYSER, LEE, LUCKE, LUQUER, MACCALLUM, MACLAY, MARQUETTE, MITCHELL (H. B.), MORGAN (J. L. R.), MORGAN (O. S.), MORGAN (T. H.), MOSES, MUNROE, OSBORN, PEGRAM, PERRIN, PIKE, ¹POOR, PUPIN, RICHARDS, SHERMAN (H. C.), SMITH (ALEXANDER), SMITH (D. E.), TROWBRIDGE, WILLS, WILSON, WOODHULL, ZINSSER

Committee STANDING COMMITTEE ON INSTRUCTION: Professors FISKE (*Chairman*), KEMP (1914), WILSON (1915), BOGERT (1916), and PEGRAM (1917)

Delegates to the University Council, see page 4.

General Statement The faculty of Pure Science, established in 1892, has charge of the university courses of instruction and research in all branches of pure science. Any duly matriculated university student is at liberty to combine courses of study and investigation under this Faculty with courses offered by other Faculties of the University.

Students are received either as candidates for the degrees of Master of Arts and Doctor of Philosophy (see "Regulations for University Degrees," page 186, *et seq.*), or as "non-matriculated students," to pursue special or partial courses.

Courses For information regarding the courses offered in 1913-14, see departmental statements as follows: *Anatomy*, page 62. *Astronomy*, page 66. *Bacteriology*, page 67. *Biological Chemistry*, page 68. *Botany*, page 71. *Chemistry*, page 73. *Civil Engineering*, page 80. *Electrical Engineering*, page 102. *Geology*, page 110. *Highway Engineering*, page 82. *Mathematics*, page 129. *Mechanical Engineering*, page 132. *Mechanics*, see *Physics*. *Metallurgy*, page 133. *Mineralogy*, page 135. *Mining*, page 136. *Pathology*, page 145. *Pharmacology*, page 146. *Physics*, page 154. *Physiology*, page 157. *Zoölogy*, page 170.

For more detailed accounts of the courses and for the tender of 1913-14, application should be made for the divisional *Announcement of College of Pharmacy; Biology; Chemistry; Geology, Geography, and Mineralogy*;

¹ Absent on leave 1913-14.

² Absent on leave second half-year.

Mathematical and Physical Science; and of the *Schools of Mines, Engineering, and Chemistry*.

A system of courses has been inaugurated to prepare students for work in foreign countries, either in the service of the United States Government, in business enterprises, or as missionaries or scientific investigators.

The successful completion of the courses offered, which will normally occupy three years in the case of candidates for the consular service, and two years in the case of candidates for other foreign service in special fields, will entitle the student, on recommendation of the committee in charge of the course of studies, to an appropriate certificate. Subject to the rules of the institution, candidates for certificates are admitted to candidacy for the regular academic degrees.

The course of study is framed primarily for graduate students, but it is also open to specially qualified students who have not completed the full college course. Students are expected to have completed successfully at least two years of undergraduate work or to give proof of equivalent training.

Candidates for a certificate must prove their ability to read French or German, and must have completed the regular college courses on the general principles of economics, American history, and European history of the nineteenth century.

The program of studies includes seven divisions: (1) Languages, (2) Geography, (3) Ethnography, (4) History, (5) Religions, (6) Economics, (7) Law.

REGISTER OF STUDENTS, 1913-14

Under the Faculties of Political Science, Philosophy, and Pure Science¹

AARONSON, ISAAC, B.S. 1913, LL.B. N. Y. Univ. 1908.....	New York City
<i>Philosophy</i>	
ABELSON, JOSEPH, B.S. C. C. N. Y. 1913.....	New York City
<i>Chemistry, Education</i>	
ABRAHAM, IRMA, A.B. N. Y. Normal 1911.....	New York City
<i>German</i>	
ACKERLE, IDA V., A.B. N. Y. Normal 1907.....	New York City
<i>Larman</i>	
ADAMS, LEVERETT ALLEN, A.B. Kansas 1903, A.M. 1906.....	Lawrence, Kans.
<i>Zoölogy</i>	
ADLER, ALPHONSE ANDREW, M.E. Bklyn. Polytechnic 1909.....	New York City
<i>Physics</i>	
ADLER, RUTH.....	New York City
<i>History</i>	
ADLERBLUM, CULLEN, A.B. C. C. N. Y. 1912.....	New York City
<i>Botany</i>	
AGHIDES, NICOLAS P., A.M. 1913, LL.B. Ottoman 1909....	Constantinople, Turkey
<i>Economics, Sociology</i>	
AITKEN, ROBERT THOMAS, B.S. California 1913.....	New York City
<i>Anthropology</i>	
ALBERT, RUBY BOYD, A.B. Colorado 1906.....	Denver, Colo.
<i>Mathematics</i>	
ALDEN, LOUISE, A.B. Vassar 1912.....	New York City
<i>Social Economy</i>	
ALEXANDER, COLIN CUTHBERT, A.M. 1907, A.B. Wofford 1900....	New York City
<i>English</i>	
ALEXANDER, CLIVE MORRIS, B.S. Iowa 1911, M.S. 1913.....	Leon, Ia.
<i>Chemistry, Mechanical Engineering</i>	
ALLYN, ELEANOR.....	New York City
<i>History</i>	
ALPERMANN, JOHANNA PAULINE, A.B. Mich. State Normal 1913...	Wapahoneta, Ohio
<i>German</i>	
ALSTET, MURRAY ADOLPH, A.B. C. C. N. Y. 1911.....	So. Bethlehem, Pa.
<i>Semetics</i>	
AMBEDKER, BHIMRAO RAMJI, A.B. Elphinstone 1912.....	Bombay, India
<i>Economics, Sociology</i>	
ANDERSON, HERBERT RAY, A.B. Lake Forest 1899.....	New York City
<i>Latin</i>	
ANDERSON, JAMES BURNS, A.B. Washington & Jefferson 1912....	Central City, Neb.
<i>Psychology, Education</i>	

¹ Officers in the University who are at the same time pursuing courses for the higher degrees are not included in this list. Wherever the name of a State is given after a degree, it signifies that the student has graduated from the given State University.

- ANDERSON, LOUIS FRANCIS, A.B. Washington 1882.....Walla Walla, Wash.
Greek
- ANTHONY, IRA S. W., A.B. Bridgewater 1910.....Shady Grove, Pa.
History
- APELIAN, BEDROSKEVORK, A.B. Iowa State 1909, B.D. Oberlin 1912..New York City
Philosophy
- ARCHER, CATHARINE AGATHA, A.B. N. Y. Normal 1912.....New York City
Physics, Astronomy
- ARMSTRONG, BYRON K., A.B. Indiana 1913.....Westfield, Ind.
Sociology, Education
- ARONOVICH, ANNA, M.D. Bern 1892.....New York City
Economics
- ASPINALL, RICHARD, A.B. West Virginia 1912.....Buckhannon, Va.
Psychology
- ATKINSON, GEOFFROY, B.S. Amherst 1913.....New York City
Romance
- AUERBACH, JENNIE GABRIELLE, A.B. 1913.....New York City
History, Economics
- BACON, BERTHA LILLIAN, A.B. Vassar 1912.....Yonkers, N. Y.
History, Sociology
- BADER, MAXIMILLIAN.....New York City
German
- BAHNSEN, ROLAND, A.B. Moravian 1909.....West Salem, Ill.
History
- BAIR, FREDERICK HAIGH, A.B. Grinnell 1912.....Des Moines, Iowa
English
- BAKER, BLANCHE ELIZABETH, Ph.D. Dennison 1902.....Johnstown, Ohio
English, Education
- BAKER, JOHN CLARK, B.S. Upper Iowa 1910.....West Union, Iowa
Chemistry
- BAKER, SAMUEL N., A.B. Brown 1905.....Montclair, N. J.
Romance
- BALD, MAACHAH BELL, A.M. 1912, A.B. Toronto 1888.....New York City
History
- BALL, FLORENCE ELIZABETH, A.B. N. Y. Normal 1912.....New York City
History
- BANCROFT, MARGARET, A.M. 1913, A.B. Wellesley 1912.....Wellesley, Mass.
History, Greek, Latin
- BARLOW, WILLIAM MARVIN, A.B. Yale 1905.....New York City
German
- BARRETT, ALICE ADELINE, A.B. 1912.....New York City
Botany
- BARROW, SARAH FIELD, Ph.B. Chicago 1900, Ph.M. 1902.....Sardis, Miss.
English, Comparative Literature
- BARTON, JOHN WYNNNE, A.B. Trinity 1913.....Overton, Tex.
History, Economics
- BARUCH, SARAH ROSAMOND.....New York City
Economics
- BATES, RALPH FLEMING, A.B. Colgate 1911.....Mystic, Conn.
History, Sociology, Education
- BAUMANN, LEROY EDWARD, A.B. Chicago 1912.....Elgin, Ill.
Sociology, Economics, Public Law
- BEAL, VINORA, B.S. 1907.....Addison, Mich.
English, Comparative Literature
- BECKER, ALBERT ALEXANDER, B.S. 1912.....New York City
German

- BEECKMAN, FLORENCE LOUISE A.B. 1904.....New York City
History
- BEDENKAPP, GLEN RAY, A.B. Hamilton 1912.....North Port, N. Y.
Economics
- BEER, MORRIS ABEL, B.S. C. C. N. Y. 1906.....New York City
English
- BELL, JAMES CHRISTY, JR., A.B. Princeton 1912.....New York City
History
- BENDANN, EFFIE.....New York City
History, Latin
- BENEDICT, MARY SCOTT, A.B. Wellesley 1903.....New York City
Sociology
- BENNETT, VINCENT LE ROY, A.B. Pennsylvania 1912.....New York City
Sociology
- BENTLEY, BEEBE WALKER, A.B. N. Y. Normal 1913.....New York City
English, Comparative Literature, Education
- BERKEY, SUE ELIZABETH, A.B. Goucher 1913.....Somerset, Pa.
English
- BERMAN, FLORENCE JULIA, A.B. N. Y. Normal 1911.....New York City
Botany
- BERNHEIM, ALFRED L., A.B. 1913.....New York City
English
- BERNKOPF, CHARLOTTE SOPHIE.....New York City
Germanic
- BERSOHN, ROBERT, B.S. C. C. N. Y. 1911.....New York City
Chemistry, Physiology
- BESSEY, MABEL ABBOT, A.B. Cornell 1906, A.M. Adelphi 1910.....New York City
English
- BIDDLE, BRUCE SANKEY, A.B. N. Y. Univ. 1909.....Jersey City, N. J.
English, Comparative Literature
- BIGELOW, MARGARET E., B.L. Ohio Wesleyan 1908.....Olympia, Wash.
English, Comparative Literature
- BIRD, J. MALCOLM, A.B. 1913.....New York City
Mathematics
- BLACK, ETHEL, A.B. Randolph-Macon 1907.....Norfolk, Va.
Latin, Greek
- BLACKLY, FREDERICK FRANK, A.B. Oberlin 1911.....Delta, Colo.
Constitutional Law
- BLAISDELL, AVIS PAULINE, A.B. Radcliffe 1911.....Somerville, Mass.
Mathematics, Mathematical Physics
- BLANCHARD, BENJAMIN FRANK, A.B. Mich. 1911.....Shelbyville, Ind.
English
- BLISS, ELIZABETH HOWE, A.B. Smith 1908.....Worcester, Mass.
Social Economy
- BLUM, THEODOR, M.D. Penn. 1911.....New York City
Anatomy
- BOARD, VIRGIL LEE, E.E. Missouri 1910.....New York City
Physics
- BOAS, HELENE MARIE, A.B. 1909, A.M. 1911.....Grantwood, N. J.
Botany, Anthropology
- BODLER, SOPHIA LOUISA, Ph.B. Chicago 1906.....Germania, Pa.
German, Education
- BODWELL, HELEN ELIZABETH, A.B. Mt. Holyoke 1903.....Andover, Mass.
Zoölogy
- BOLL, ARTHUR, A.B. Concordia 1896.....New York City
German

- BOMAN, JOHN SIDNEY, A.B. Missouri 1902.....New York City
Mathematics
- BOOTH, ALICE BRYAN, A.B. Indiana 1908, A.M. 1910.....New York City
English
- BORCHARD, ALICE SYLVIA, A.B. N. Y. Normal 1913.....New York City
German
- BOURN, AUGUSTUS OSBORNE, JR., A.M. 1908.....Bristol, R. I.
Economics
- BOWEN, BEULAH IRENE, A.B. Wellesley 1910.....Buffalo, N. Y.
Social Economy
- BOWEN, HARRISON NELSON, A.B. Williams 1906.....North Adams, Mass.
English
- BOYCE, W. SCOTT, A.B. Wake Forest 1903.....Selwin, N. C.
Economics
- BOYD, WILLIS MORGAN.....Adairsville, Ga.
History, Economics
- BRADBURY, DORA JULIA, A.B. Mt. Holyoke 1913.....Fort Kent, Me.
Economics, Sociology, Social Economy
- BRAGDON, MRS. GUY.....New York City
Chinese
- BRAND, CHARLES SAMUEL, LL.B. N. Y. Law 1903.....New York City
Constitutional Law
- BRANSON, JOHN HOOD, A.M. 1906, A.B. Harvard 1902.....New York City
Chemistry
- BREAN, EDWIN STEWART, A.B. Penn College 1904.....Elizabeth, N. J.
Zoology
- BRESSEL, JENNIE KOHN, A.B. N. Y. Normal 1912.....New York City
Mathematics, Astronomy
- BRETT, GEORGE MONROE, A.B. Bowdoin 1897.....Auburn, Me.
Mathematics
- BREWER, MARGARET DRYDEN, B.S. 1910.....New York City
Sociology, Philosophy
- BREWSTER, JOHN ALFRED, A.B. Harvard.....Geauga Lake, Ohio
Sociology
- BRIDGES, CALVIN BLACKMAN, B.S. 1912.....New York City
Zoology, Chemistry
- BRIMHALL, DEAN R., A.B. Brigham Young 1913.....Provo City, Utah
Psychology, Education
- BRINKLEY, STUART ROBERT, A.B. Emory 1909.....Thomson, Ga.
Chemistry, Education
- BRISTOL, RAYMOND MOREAU, A.B. Amherst 1911.....New York City
Economics, Sociology
- BRISTOL, WARREN EDWIN, A.M. 1912, A.B. Middlebury.....Vergennes, Vt.
History
- BRITTAIN, AGNES MILNE, A.B. N. Y. Normal 1910.....New York City
Comparative Literature
- BROOK, CHARLES, A.B. Princeton 1908.....Madison, N. J.
Sociology
- BROWN, ALBERT MARION, Ph.B. Ohio State 1901, A.M. Washington 1905 Wauseon, O.
Zoology, Botany
- BROWN, CATHARINE DURANT, A.B. Wellesley 1912.....Barre, Mass.
Comparative Literature, German, Education
- BROWN, ELMER LEONARD, A.B. Baker 1909.....New York City
Sociology
- BROWN, ETHEL LIONELLE, B.S. 1913, A.B. Adelphia 1913.....New York City
History

- BROWN, GEORGE E., A.M. 1913, A.B. Baker 1908.....Lenexa, Kans.
History
- BROWN, GWENDOLIN, A.B. Adelphi 1904.....New York City
History
- BROWN, HAROLD EDWIN, B.S. N. Y. Univ. 1910, A.M. 1912.....Freeport, N. Y.
Constitutional Law
- BROWN, MEEFORD LOSEE, A.M. 1912, A.B. St. Lawrence 1908.....New York City
Philosophy
- BROWNING, GERTRUDE, A.B. Cornell 1910.....New York City
English, Comparative Literature
- BRUEGGEMAN, JOSEPHINE, A.B. N. Y. Normal 1913.....New York City
Physiology
- BRUNO, FRANK J., A.B. Williams 1899.....New York City
History
- BULLOCK, FLORENCE WINGFIELD, A.B. Illinois 1907.....El Paso, Ill.
History
- BUNZEL, BESSIE, A.B. 1912.....New York City
History, English, Economics
- BURD, CHARLES GILLETTE, A.M. 1912, A.B. Amherst 1898.....New York City
English
- BURLINGAME, ANNE ELIZABETH, A.M. 1912, A.B. Syracuse 1900...New York City
History
- BURNE, ELEANOR, A.B. 1911.....Douglaston, N. Y.
Geology
- BURR, FREEMAN FOSTER, B.S. Harvard 1900.....White Plains, N. Y.
Geology
- BURR, HUGH CHAMBERLAIN, A.B. Princeton 1911.....Gloversville, N. Y.
Sociology
- BUSHONG, ALICE MARGARET, A.B. 1907.....New York City
German
- BUSSE, JOHANNA, A.B. Iowa 1913.....Alden, Iowa
Physics
- BUTLER, MARION EDWARDINE, A.B. N. Y. Normal 1913.....New York City
English
- BUTTS, MARY JANE, A.B. Texas 1913.....New York City
Mathematics, Physics
- CAHALL, RAYMOND DUBOIS, Ph.B. Kenyon 1908.....Mansfield, Ohio
History
- CALKINS, CLARIBEL, Ph.B. Oberlin 1894.....Watertown, N. Y.
German
- CAMERON, WALTER SCOTT, A.M. 1912, A.B. C. C. N. Y. 1895.....New York City
Botany
- CAMPBELL, MRS. JOHN A. L., A.B. Mt. Holyoke 1901.....New York City
Comparative Literature
- CAMPBELL, RUTH WEST, A.B. Wilson 1906.....New York City
History
- CAPLES, EDITH JESSIE, A.B. 1904.....New York City
French
- CARSE, ELIZABETH, A.M. 1911, Ph.B. Cornell 1895.....New York City
English, Comparative Literature
- CARSON, EDGAR PAUL, A.B. Wooster 1907.....New York City
Social Economy, Economics
- CARVER, WILLIAM RAYMOND, A.B. Penn. 1912.....New York City
Administrative Law, Economics
- CARY, LELAND PINKERTON, A.B. Ohio Wesleyan 1912.....Millersburg, Ohio
Sociology

- CARY, MYRA TREAT, A.B. Wisconsin 1908, A.M. 1910.....Madison, Wis.
Sociology, Social Economy
- CASAMAJOR, MARTHA, A.B. Adelphi 1904.....New York City
Constitutional Law, History
- CATTELL, ELETHER.....Garrison, N. Y.
Zoölogy
- CAUBLE, LAURA ANNIS, B.S. 1909.....New York City
Sociology
- CAVE, MARGARET UPTON, A.B. Western State Normal 1913.....Hays, Kans.
Latin, Education, Greek
- CAVERT, SAMUEL MCCREA, A.B. Union 1910.....Ballston Spa, N. Y.
Philosophy
- CAVERT, WALTER DUDLEY, A.B. Union 1911.....Ballston Spa, N. Y.
English
- CERMAK, MAY CECILIA, A.B. N. Y. Normal 1913.....New York City
Sociology
- CEROW, GEORGIA ANGELA, A.B. 1912.....New York City
Mathematical Physics
- CHAMBERS, KATH ETHEL, A.M. 1913, A.B. Bryn Mawr 1911.....New York City
Anthropology, Arabic
- CHAN, YEW YUNG, B.S. 1912.....Shanghai, China
Constitutional Law
- CHANDLER, SIDNEY LEVI, A.B. Morningside 1899, A.M. 1901....Sioux City, Iowa
Sociology, Social Economy, History
- CHANKIN, VICTOR, A.B. C. C. N. Y. 1911.....New York City
French
- CHARLES, JOHN DEULINGER, A.B. Franklin & Marshall 1905.....Hesston, Kans.
Zoölogy
- CHASE, CHARLES HARRY, B.S. 1913.....New York City
Philosophy, Economics, Sociology
- CHENEY, GENEVIEVE HENRIETTA, A.B. Tufts 1906.....Delewan, N. Y.
Romance
- CHEVRET, ANTOINETTE CLÉMENCE, B.L. California 1901, M.L.. 1911..Arcata, Calif.
Romance, English
- CHIU, CHANG-YUENG, B.S. Purdue 1913.....Shanghai, China
Economics, Sociology
- CHOW, KOI-CHI, E.M. 1914.....Shanghai, China
Civil Engineering, Geology, Electrical Engineering
- CHRYSTALL, MAURICE MAYER, B.S. C. C. N. Y. 1910.....New York City
Sociology
- CHU, CHIN, A.B. Wisconsin 1913.....Wu-sih, China
Economics, Sociology
- CHU, LOH, A.B. Wisconsin 1913.....Wu-sih, China
Mathematics
- CHU, VEE GIH, B.S. Illinois 1913.....Shanghai, China
Chemistry, Mechanics, Electrical Engineering
- CLARK, DONALD LEMEN, A.B. Depauw 1911.....New York City
English
- CLARK, DELBER WALLACE, A.B. Colby 1911.....Washburn, Me.
History
- CLARK, WILLIAM EVANS, A.M. 1913, A.B. Amherst 1910.....Philadelphia, Pa.
History, Public Law
- CLARKE, EDWIN LEVITT, A.B. Clark 1909, A.M. 1911.....Akron, Colo.
Sociology, Education, Economics
- CLARKE, ROSEMARY, A.B. 1913.....Lake Mahopac, N. Y.
Economics

- CLAUSS, MARTHA, B.S. 1906.....New York City
Romance
- CLEMENTS, PAUL HENRY, A.B. Indiana 1911, A.M. 1912.....Indianapolis, Ind.
International Law, Roman Law, Chinese
- CLEVELAND, EUNICE JEANETTE, A.B. Mich. 1910.....Naples, N. Y.
English
- CLEVELAND, EVA LEE.....New York City
History
- CLOUGH, HARVEY BURNETT, A.B. Amherst 1906.....New York City
Chemistry
- COATES, ARCHIE AUSTIN, A.B. 1913.....New York City
English, Comparative Literature
- COCHRAN, MARY BELLE.....New York City
Comparative Literature
- CODY, LOIS, B.S. 1913.....Greenville, S. C.
History, Economics
- COFFIN, ISABEL P., Ph.B. Syracuse 1904.....New York City
English
- COLBY, ELBRIDGE, A.B. 1912.....New York City
English, Comparative Literature
- COLE, ANNA LOUISA, Ph.B. Syracuse 1894.....Berkeley, Calif.
Social Economy
- COLE, FAY COOPER, B.S. Northwestern 1903.....Chicago, Ill.
Anthropology
- COLE, HARRY DIX, A.B. 1913.....New York City
English, Comparative Literature
- COLEMAN, RUFUS ARTHUR, A.B. Whitman 1909.....Spokane, Wash.
English, Education
- COLLIER, KATHERINE BROWNELL, A.B. Vassar 1908.....New York City
History
- COLLIER, PAUL STANLEY, A.B. Iowa 1911, A.M. 1912.....Durant, Iowa
Social Economy, Administrative Law
- COLLORD, JAMES HAROLD, A.B. Princeton 1911, A.M. 1912.....Buffalo, N. Y.
History
- COLONY, ROY JED.....Bronxville, N. Y.
Geology
- CONVERSE, GUY C., A.B. Hillsdale 1910.....Hillsdale, Mich.
Social Economy, Education
- COOK, GRACE, A.B. Mt. Holyoke 1912.....Lodi, N. Y.
English, Comparative Literature, Education
- COOK, HARRY FRANCIS, A.M. 1910, A.B. Brown 1909.....Westerly, R. I.
Psychology
- COOKE, CLAUD HANBURY.....New York City
Philosophy
- COOPER, FRANK BRISCOE, A.B. Randolph-Macon 1905, A.M. 1906..Buena Vista, Va.
Physics
- COPPOCK, HOLMER JOHN, A.B. Earlham 1904, A.M. 1908.....Millbrook, N. Y.
History, Economics
- CORRIGAN, TILLIE, A.B. N. Y. Normal 1913.....New York City
Mathematics
- CORSE, LILLIAN.....East Orange, N. J.
French
- CORVIN, AXEL EINAR, Equiv. A.B. Uppsala 1911.....Stockholm, Sweden
Psychology
- COTTON, SARAH JOHNSON, A.B. West Virginia 1901.....New York City
Oriental Languages

- COULTER, J. HARVEY, Ph.B. Syracuse 1910.....Greenwich, Conn.
English
- COX, GEORGE BENSON, A.M. 1911, A.B. Western 1906.....Holyrood, Can.
Sociology
- COYLE, MOLLY, Brooke Temple, A.B. 1912.....New York City
Latin
- CRAIG, VIRGINIA JUDITH, A.B. Drury 1901, Ph.D. Penn. 1906....New York City
English
- CRAIG, WILLIAM CHRISTY, Ph.B. Mt. Union 1908.....New York City
Sociology
- CRANDALL, ARTHUR T., B.S. Utah 1910.....Salt Lake City, Utah
Geology
- CRANDALL, HAROLD WARREN, A.B. 1913.....New York City
History, Philosophy
- CRANFORD, WILL CLARK, A.B. Pomona 1913.....Pasadena, Calif.
Sociology
- CRITCHLOW, RAY, A.B. Yale 1906.....New Rochelle, N. Y.
English
- CROCKER, NELLIE J., B.S. 1907.....New York City
German
- CRONIN, SARAH ELIZABETH, B.S. Iowa 1903, M.S. 1905.....Waukon, Iowa
Mathematics
- CROSS, EPHRAIM, A.B. C. C. N. Y. 1913.....New York City
Latin, Romance
- CROYLE, HARLEY IRWIN, A.B. Drake 1913.....New Cambria, Kans.
Philosophy
- CUMBERLAND, WILLIAM WILSON, A.M. 1913, A.B. Occidental 1912..Los Angeles, Calif.
Economics, Sociology, History
- CUMMING, ALEXANDER, A.B. Michigan 1894, LL.B. Harvard 1902, A.M. 1903 N. Y. City
Sociology, Economics, Philosophy
- CUMMINGS, ARTHUR ROLAND, B.S. 1912.....New York City
Sociology
- CUMMINGS, STANLEY, A.B. Yale 1912.....Plantville, Conn.
Philosophy
- CUROE, PHILIP R. V., B.S. C. C. N. Y. 1913.....New York City
Comparative Literature
- CURTISS, GEORGE WARREN, B.S. 1913, M.E. Cornell 1912.....New York City
Philosophy, Psychology, Anthropology
- CUSHMAN, ROBERT EUGENE.....Akron, Ohio
Constitutional Law, Administrative Law, Political Economy
- DARDEN, WILLIAM ARTHUR, A.B. North Carolina 1910.....Wilson, N. C.
English
- DARGON, MARION, A.M. 1913, A.B. Wofford 1909.....New York City
History
- DARLINGTON, HENRY VANE BEARNS, A.B. 1910.....New York City
Economics, Sociology
- DARNTON, MAIDA CESTELHUN, B.L. California 1894.....New York City
English, German
- DARR, JOHN WHITTIER, A.M. 1913, B.L. Ohio Wesleyan 1910.....Bucyrus, Ohio
History
- DARRAH, GILLESPIE BLAINE, A.B. Marietta 1912.....Mocksburg, Ohio
Economics, Agriculture
- DAVIES, THOMAS, A.B. Kings 1899, A.M. 1902.....New York City
History Philosophy
- DAVIS, CLARKE EDWIN, A.M. 1913, A.B. Michigan State Normal 1912, Ypsilanti, Mich.
Chemistry

- DAVIS, KATHARINE NODE, A.B. Wellesley 1901.....Glens Falls, N. Y.
Comparative Literature
- DAVIS, WILL WINFREE, A.B. Randolph-Macon 1907.....Wills Point, Tex.
Greek, Latin
- DAWKINS, SPENCER MORGAN, A.B. Wofford 1903.....Spartenburg, S. C.
International Law, Roman Law, History
- DAY, JONATHAN CREECH, A.B. Tusculum 1901.....N. w York City
Sociology, Social Economy
- DEBATIN, FRANK MICHAEL, A.B. Washington 1912, A.M. 1913.....St. Louis, Mo.
Greek, Latin
- DE BRA, ARTHUR H., A.B. Cornell 1911.....New York City
Philosophy, Psychology
- DECKER, ALICE MABEL, A.B. Wellesley 1909.....East Orange, N. J.
History
- DELL, BURNHAM NORTH, A.B. Princeton 1912.....New York City
Sociology
- DE MARIA, ANNA GERMAINE, A.B. N. Y. Normal 1912.....New York City
Romance
- DENNISTON, MARY, B.S. 1912.....New York City
Psychology
- DERBY, ALICE HARRIET, Ph.D. Vermont 1902.....Burlington, Vt.
Comparative Literature
- DEVLIN, FRANK BRAITHWAITE, A.B. 1910.....Yonkers, N. Y.
Economics, Education
- DEXTER, JOHN SMITH, A.B. Ripon 1908, A.M. Wisconsin 1909.....Ashland, Wis.
Zology
- DICKSON, ARTHUR, A.M. 1911, B.S. C. C. N. Y. 1909.....New York City
Comparative Literature
- DITTMAR, CLARENCE G., Ph.B. Hamline 1910.....Augusta, Wis.
Sociology
- DOBIE, J. FRANK, A.B. Southwestern.....Beeville, Tex.
English Comparative Literature
- DONEGAN, SARAH CECILIA, A.B. N. Y. Normal 1913.....New York City
History
- DONOVAN, JOHN JEREMIAH, A.B. Manhattan 1911.....New York City
English
- DONVAN, WALTER J., B.S. C. C. N. Y. 1908.....New York City
Chemistry
- DOUGHERTY, IRENE S., A.B. N. Y. Normal 1911.....New York City
Chemistry
- DOUGLAS, GEORGE HARLEY, A.B. Maryville 1913.....Leeds, Mass.
Social Economy, Economics
- DOUGLAS, PAUL HOWARD, A.B. Bowdoin 1913.....Newport, Me.
Economics, Sociology, History
- DOUGLASS, EARL LEROY, A.B. Princeton 1913.....New York City
Psychology
- DRACHSLER, JULIUS, B.S. C. C. N. Y. 1912.....New York City
Sociology
- DRAPER, OTIS HERBERT, A.B. Hopkins 1910.....New York City
History
- DRURY, HORACE BOOKWALTER, A.M. 1913, A.B. Otterbein 1910.....Dayton, Ohio
Economics, Sociology
- DUFFY, ANNA, A.B. New Rochelle 1913.....New York City
English
- DUNBAR, RALPH McNEIL, A.B. George Washington 1912.....New York City
Sociology

- DUNCAN, FREDERICK NEWTON.....Flat Rock, Ill.
A.B. Indiana 1900, A.M. 1901, Ph.D. Clark 1906
Zoology
- DUNCAN, MARY ELLEN, A.B. Adelphi 1908.....New York City
History, Latin
- DURANT, WILLIAM JAMES, A.B. St. Peters 1907, A.M. 1908.....New York City
Psychology, Philosophy
- DURFER, CLAYTON GEORGE, B.S. 1905.....New York City
English
- DUSCHATEKO, ALFRED, B.S. C. C. N. Y. 1911.....New York City
History
- EATON, MARY PEARL, A.B. Wellesley 1904.....New York City
English
- EBERT, JOSEPH FRANCIS, A.B. Nebraska 1911.....New York City
History
- EDWARDS, GEORGE W., A.M. 1913, A.B. C. C. N. Y. 1911.....Hartsdale, N. Y.
History
- EFROS, ISRAEL ISAAC, A.B. N. Y. Univ. 1913.....New York City
Philosophy, Semitics
- EISENBERG, ISADOR, A.M. 1913, A.B. C. C. N. Y. 1911.....New York City
Sociology, Economics
- ELDER, FRANK ROSE, B.S. Amherst 1911.....Amherst, Mass.
Chemistry, Mathematics
- ELDER, JANE.....Paterson, N. J.
German
- ELLINGWOOD, ALBERT RUSSELL.....Colorado Springs, Colo.
A.B. Colorado 1910, B.C.L. Oxford, 1913
Constitutional Law
- ELLIS, BEULAH, Ph.B. Chicago 1909.....New York City
English
- ELWYN, BENJAMIN, A.B. C. C. N. Y. 1913.....New York City
History, Economics
- EMERSON, RUTH NANCY, A.B. Wellesley 1907.....Cincinnati, Ohio
Social Economy
- EMIN, AHMED, A.M. 1912.....Constantinople, Turkey
Sociology, Economics, History
- EMMONS, MARTHA, A.B. 1912.....New York City
English
- ENDERS, HENRY CORNELIUS.....New York City
Chemistry
- ENGEL, EMMANUEL RALPH, A.B. N. Y. Univ. 1912, A.M. Cornell 1913, New York City
Philosophy, Education
- ENGLISH, HELEN.....Kansas City, Mo.
Botany, Italian, Comparative Literature
- EPFS, ERNEST K., A.B. Wofford 1911.....Kingtree, S. C.
History
- EPSTEIN, MORRIS L., B.S. 1912, A.M. 1913.....New York City
Romance
- ERDOFY, FRANCES VERA, A.B. N. Y. Normal 1911.....New York City
German
- ERWIN, EDWARD JONES, A.B. Davidson 1906.....Morganton, N. C.
English
- EVANS, EDWARD, JR., B.S. Howard 1913.....Fayetteville, N. C.
Mathematics, Mechanics
- EVANS, ELIDA.....New York City
Psychology

- EVANS, JOHN ELLIS, A.B. Indiana 1910, A.M. 1911.....Brazil, Ind.
Psychology, Education
- EVANS, WARD VINTON, Ph.B. Franklin & Marshall 1907.....Mohegan Lake, N. Y.
Chemistry, Physics
- EVENSON, OSCAR LUDWIG, B.S. St. Olaf 1905.....Jackson, Minn.
Chemistry, Bacteriology
- EWING, EDITH CLAYPOOL, B.S. 1903.....New York City
English, Comparative Literature
- FALK, MAX, B.S. C. C. N. Y. 1913.....New York City
Social Economy, Economics, History
- FARIES, JOHN CULBERT, A.M. 1913, A.B. Minnesota 1889.....New York City
Social Economy, Sociology, Economics
- FARRAR, GEORGIA, A.B. Baker 1912.....Axtell, Kans.
English
- FENN, ERWIN HENRY, E.E. Brooklyn Polytechnic 1908, M.S. 1911..New York City
Mathematical Physics, Mathematics
- FERGUSON, JOHN DELANCEY, A.B. Rutgers 1911, A.M. 1912.....Plainfield, N. J.
English
- FERNANDEZ, GRACIA LILLIAN, A.M. 1912, B.S. Maine 1898.....North Dexter, Me.
Romance, Comparative Literature
- FIGUET, ROBERTA McL.....Tarrytown, N. Y.
Romance
- FINCK, EDGAR MOORE, Litt.B. Princeton 1910, A.M. 1912.....Arlington, N. J.
German
- FINK, ANNA HERMINE, A.B. Adelphi 1912.....New York City
German
- FISH, JOSEPH BURTON, A.M. 1913, B.S. C. C. N. Y. 1905.....New York City
Zoölogy, Botany
- FISHER, GALEN MERRIAN, B.L. California 1896, A.M. Harvard 1905..Tokio, Japan
Sociology, Social Economy
- FISHER, LIZETTE ANDREWS, A.M. 1912.....New York City
English, Comparative Literature
- FITZGERALD, SISTER M. XAVIER, A.B. New Rochelle 1909.....New Rochelle, N. Y.
History
- FLEMING, EDITH JOSEPHINE, A.B. 1913.....New York City
History
- FLENNIKEN, MARGARET ANSLEY, B.S. Erskine 1906.....Winsboro, S. C.
Social Economy
- FLORIAN, ERASMUS ANDRÉ, B.S. St. Louis 1911.....New York City
Economics
- FLOYD, CHARLES HAROLD, B.S. Harvard 1903.....New York City
Constitutional Law
- FOLWELL, ETHEL ANNA, A.M. 1913, A.B. Nashville 1910.....Nashville, Tenn.
Latin, Indo-Iranian
- FOOTE, JOHN PAUL, A.B. Adelphi 1908.....New York City
History
- FOOTE, ROBERT BONER BOWLER, A.B. Kenyon 1896.....New York City
Psychology
- FORSYTHE, ROBERT STANLEY, A.M. 1909, B.L. Lincoln 1908.....New York City
Comparative Literature
- FOSTER, HELEN WEBSTER.....New York City
Chinese
- FOSTER, ROSE KATHARINE, A.B. Olivet 1913.....Olivet, Mich.
Sociology, Economics
- FRANCIS, SALLY.....Cranford, N. J.
Sociology

- FRANK, JEANETTE, A.M. 1913, A.B. N. Y. Normal 1912.....New York City
Geology
- FRANKHAM, CHARLES R.....New York City
A.B. Otterbein 1896, A.M. Ohio State 1903, LL.B. 1904
Constitutional Law, International Law, Jurisprudence
- FRANKLIN, ALBERTA MILDRED, A.B. Wellesley 1904.....Atlantic Highlands, N. J.
Greek
- FRASER, FORREST L.....Hoboken, N. J.
English
- FREEDMAN, LEO, B.S. 1908.....New York City
German
- FRENCH, CLAYTON T. A., LL.B. 1910, LL.M. 1913, A.B. N. Y. Univ. 1907...New York City
Economics
- FRERICHS, HARRISON, A.B. C. C. N. Y. 1910.....New York City
History, Economics
- FRIEDMAN, BELLA, A.B. N. Y. Normal 1913.....New York City
German
- FRIES, VERNON ELLSWORTH, A.B. Otterbein 1911.....Nutley, N. J.
English
- FRISCH, EPHRAIM, A.B. Cincinnati 1903.....New York City
Semitics, Social Economy
- FROST, CLEO, A.B. Baylor 1912.....Mineral Wells, Tex.
Economics, English, History
- FUJITA, KWANTARO, A.B. Yale 1904.....Tokushima, Japan
Jurisprudence
- GALT, SARA ELIZABETH, B.S. 1908, A.B. Wilson 1905.....Terre Hill, Pa.
History
- GALT, SUSAN DUANE, A.B. College for Women S. C. 1912.....New York City
Education, Sociology, History
- GARABEDIAN, HOVHANNES LAZARUS, A.M. 1913, A.B. Robert 1910..New York City
History, Sociology
- GARRETT, PAUL WILLARD, B.S. Whitman 1913.....Wenotchee, Wash.
Constitutional Law, Administrative Law, Social Economy
- GARRETSON, KATE, A.B. N. Y. Normal 1913.....New York City
Mathematics
- GARTH, THOMAS RUSSELL, A.B. Denver 1909, A.M. 1910.....Denver, Colo.
Psychology, Education
- GARWOOD, LYNN EUGENE, A.B. Otterbein 1908, A.M. Wisconsin 1912. Nutley, N. J.
History
- GAVIN, FRANK, A.B. Cincinnati 1912.....Cincinnati, Ohio
Semitics
- GREER, HELENA, A.M. 1912, A.B. Cornell 1903.....New York City
Germanic, Romance
- GRIB, JAY RUSSELL, M.E. Ohio State 1913.....Middlebranch, Ohio
Sociology
- GELBTUCH, HENRY BERNHARDT, B.S. Ohio State 1913.....New York City
Chemistry
- GETMAN, ALBERT ALTON, Ph.B. Hamilton 1911.....Oneonta, N. Y.
Psychology
- GIBBONS, WILLIS ALEXANDER, A.B. Wesleyan 1910, A.M. 1911...New York City
Chemistry
- GILBERT, RUTH, A.B. Colorado 1907, A.M. 1910.....New York City
Bacteriology, Zoology
- GILDERSLEEVE, NELSON BURROUGHS, A.B. 1911.....New York City
English, Comparative Literature

- GILDNER, LAURA MAY, A.B. Cornell 1906.....Newport News, Va.
Latin
- GILLESPIE, JAMES PACKARD, A.B. 1905, A.M. 1910.....New York City
Sociology, Economics
- GILMORE, DAVID PERCY, A.B. Princeton 1910.....New York City
Germanic
- GILTNER, EMMETT E., A.M. 1907, A.B. Indiana 1904.....New York City
History
- GIRDNER, PENELOPE MORGAN, A.B. 1912.....New York City
Romance
- GITTELSON, WILLIAM, A.B. C. C. N. Y. 1909.....New York City
English
- GIBENS, WILLARD EARL, A.B. Indiana 1913.....New York City
Sociology
- GLASSBERG, BENJAMIN, A.B. C. C. N. Y. 1910.....New York City
History
- GOERTZ, MATILDA, A.B. N. Y. Normal 1912.....New York City
Mathematics
- GOLDBERG, NELLIE ELEANORE, A.B. N. Y. Normal 1912.....New York City
Latin
- GOLDENSON, SAMUEL HARRY, A.B. Cincinnati 1904.....Albany, N. Y.
Philosophy, Sociology
- GOLDSMITH, BEATRICE, A.B. Adelphi 1906.....New York City
Constitutional Law
- GOODMAN, ELIZABETH AGNES, A.B. N. Y. Normal 1913.....Goshen, N. Y.
English
- GOODRICH, ROBERT RHEA, B.S. Inst. Tech. 1901, M. S. 1902.....Tucson, Ariz.
Metallurgy, Geology
- GOODWIN, CONRAD HARRISON, A.B. Richmond 1908, A.M. Virginia 1910, New York City
Philosophy
- GOWDEY, CATHARINE, A.B. Smith 1913.....New York City
Philosophy
- GRAVES, LEONARD MERCER, A.B. Baylor 1913.....Decatur, Tenn.
English, Education, History
- GRAY, CLAUDINE, A.B. N. Y. Normal 1913.....New York City
Romance
- GRAY, JESSE MARTIN, A.M. 1913, A.B. Olivet 1904.....Blairtown, N. J.
German, English, Comparative Literature
- GREEN, HOWARD CHARLES, A.B. C. C. N. Y. 1902.....New York City
History
- GREEN, JOHN C., B.S. C. C. N. Y. 1904.....New York City
Psychology
- GREEN, LAURA CAROLINE, A.M. 1913, A.B. Wellesley 1893.....Granville, Ohio
Latin, Greek
- GREENBERG, HYMAN, B.S. 1912, A.M. 1913.....New York City
Physics, Mathematics
- GREENE, STANLEY RIDELL, A.B. Colgate 1910.....Hamilton, N. Y.
English, Comparative Literature
- GREGORY, ANGELINA, A.B. Richmond 1911.....Tunstall, Va.
English
- GRIGGS, MARY AMMERMAN, A.B. Vassar 1908.....Somerville, N. J.
Chemistry, Physics
- GROSE, LAWRENCE RICH, A.M. 1909, A.B. Brown 1907.....New York City
English
- GUSTAFSON, WALTER WILLIAM, A.M. 1913, A.B. Upsala 1912.....Kenilworth, N. J.
English, Comparative Literature, German

- GUYTON, DAVID EDGAR, B.S. Mississippi 1911.....Blue Mountain, Miss.
History, Economics
 HAAG, FLORENCE GRANDON, A.B. Trinity 1912.....New York City
Latin, History
 HAAS, FLORENCE, A.B. N. Y. Normal 1913.....New York City
Mathematics
 HADLEY, ROSS ALBERT, A.M. 1910, B.S. Penn. 1905.....Calcutta, India
Indo-Iranian
 HAESSLER, LUISE, A.B. Chicago 1906.....New York City
English, Latin, Greek, Anthropology
 HAIGHT, HELEN IVES, A.M. 1913, A.B. Vassar 1898.....Auburn, N. Y.
History
 HALE, FLORENCE.....New York City
Social Economy
 HALL, RAY OVID.....New York City
Economics
 HALLOCK, ANNA COBB, A.B. 1912.....New York City
Economics
 HALLOCK, FRANCES ADELIA, A.B. Mt. Holyoke 1899.....New York City
Botany, Zoölogy
 HALLOWELL, MARY ELIZABETH, B.S. Earlham 1907.....Pendleton, Ind.
Latin
 HAMANN, HENRY.....New York City
German, Education
 HAMMOND, MABEL, FLORENCE, A.B. Radcliffe 1906.....New York City
Comparative Literature, French
 HARADA, TANEZO, A.M. 1912.....New York City
Philosophy
 HARDING, FREDERICK CHARLES, A.M. 1913.....Yonkers, N. Y.
Semetics
 HARDY, SARAH DROWNE BELCHER.....New York City
 A.B. Boston 1887, M.D. Woman's Med. 1891, A.M. N. Y. Univ. 1899, LL.B. 1901
Social Economy
 HARRIS, NATHAN CONANT, A.M. 1913.....Auburn, Me.
Social Economy
 HART, HARRIET, B.S. Nebraska 1902.....New York City
Geology, English
 HARTWELL, FRED W., B.S. Syracuse 1905.....New York City
Chemistry, Zoölogy
 HASBERG, GLADYS STELLA, A.B. 1913.....New York City
English
 HAWKES, ERNEST WILLIAM.....Edgewater, N. J.
 B.L. Dakota Wesleyan 1909, A.M. Pennsylvania 1913
Anthropology, Indo-Iranian
 HAY, JENNIE BURT.....New York City
Sociology
 HAYDEN, PHILIP MESERVE, A.M. 1913, A.B. Tufts 1903.....Tufts College, Mass.
Romance, Comparative Literature
 HEADY, JOHN HENRY, A.B. Hobart 1901, A.M. Indiana 1907.....New York City
Sociology, Economics
 HEALY, JOSEPH X., A.B. C. C. N. Y. 1912.....New York City
English
 HEATON, HARRY CLIFTON, A.B. Yale 1907.....New York City
Romance
 HEFT, HATTIE LOUISE, B.S. Louisville 1912.....Washington D. C.
Chemistry

- HELLER, HARRY, B.S. C. C. N. Y. 1909.....New York City
Astronomy, Mathematics
- HENDERSON, HAZEL VANDERZEE, A.B. 1907.....New York City
English
- HENDLEY, CHARLES JAMES, A.B. North Carolina 1905.....Elmwood, N. C.
History, Education, Economics
- HERENDEEN, JANE EFFIE.....Shortsville, N. Y.
English
- HEROLD, LEAH, A.B. Tulane, 1910.....New York City
History
- HERRMANN, ALFRED, A.B. 1908, A.M. 1909.....New York City
German
- HERRMANN, HATTIE, B.S. 1913.....New York City
Mathematics
- HERRMANN, MAY THERESE, A.B. 1910.....New York City
Economics
- HESS, RUTH JOSEPHINE, A.B. Smith 1911.....New York City
History, Economics
- HEUERMANN, HELENA F., A.M. 1908, A.B. Adelphi 1904.....New York City
Social Economy
- HIBBS, HENRY HORACE, JR., A.B. Brown 1910, A.M. 1911.....Murfreesboro, Tenn.
Sociology, Economics, Social Economy
- HICKOX, LAURA COLTON, A.B. Vassar 1905.....Toledo, Ohio
English, Comparative Literature, Education
- HIGGINS, CHARLES HOUCHIN, C.E. Princeton 1903.....Jersey City, N. J.
Economics
- HIGGINS, MARY, B.S. 1912.....Sturgeon Bay, Wis.
English, Comparative Literature
- HIGH, LEON CLIFFORD, A.B. Brown 1913.....Providence, R. I.
Sociology
- HIKI, TADASU, Ph.D. Tokio 1890.....Kioto City, Japan
Geology
- HILBORN, RITA, A.B. 1913.....New York City
Comparative Literature, Romance
- HILL, ANTIONETTE DYETT, A.B. 1910, A.M. 1911.....New York City
Mathematics
- HINES, ALBERT BARKER, A.B. Allegheny 1910.....Pittsburgh, Pa.
Economics
- HINES, JULIAN COLGATE, B.S. North Carolina 1905, M.S. 1909....Sinnickson, Va.
Physics
- HIRSHCOFF, PINCUS, A.B. 1913.....New York City
Latin, Education, Greek
- HIRSHLIEFER, LOUIS JUDSON, B.S. 1912.....New York City
Chemistry
- HITTI, PHILIP K., A.B. Syrian 1908.....New York City
Semetics, Sociology, History
- HOBBS, MARGARETT ADAMS, A.B. Vassar 1910.....Portland, Me.
Education, Sociology, Economics, Social Economy
- HOFFMANN, CHARLES J., JR., B.S. 1911.....New York City
English
- HOFFMANN, JACOB, A.B. C. C. N. Y. 1910.....New York City
Chemistry
- HOFRICHTER, ALICE CORNELIA, A.B. Hiram 1913.....Cleveland, Ohio
Social Economy
- HOGUE, MILDRED ALBRO, A.B. Goucher 1908.....New York City
Zoölogy

- HOLLIDAY, CARL JENNINGS, B.S. Pittsburgh 1912.....Butler, Pa.
Chemistry
- HOLLINGSHEAD, GEORGE GIVEN.....Mechanicstown, Ohio
Ph.B. Franklin 1907, Ph.M. 1910
Sociology, Economics, Anthropology
- HOLLOWAY, RUFUS EMORY, A.B. Hendrix 1906.....Austin, Tex.
English, Comparative Literature, Psychology
- HOLMES, HENRY ALFRED, A.B. Wesleyan 1906, A.M. 1910.....Berwick, Me.
Romance
- HOLMES, ISABEL, A.B. Tufts 1902.....Kingston, N. Y.
Latin, Greek
- HONESS, CHARLES WILLIAM, A.B. Oberlin 1912.....New York City
Geology
- HOOD, PAUL K., A.B. Marietta 1912.....Atlanta, Ga.
Agriculture, Botany
- HOOVER, MERLE M., A.M. 1911, A.B. Lebanon Valley 1906.....New York City
English, Comparative Literature
- HOPE, IDA MAY, A.B. 1903.....New York City
English, Comparative Literature
- HOPKINS, EMMA BARKSDALE, B.S. 1907.....New York City
History
- HOPKINS, LUCILE MARSCHALK, A.B. Columbus State 1912.....New York City
English
- HOPP, MARIE MARGUERITE LOUISE.....Brussels, Belgium
Romance
- HORIKAWA, YOSHIYA, A.B. Waseda 1907.....Mijeken, Japan
Economics
- HOUGH, JEAN WINIFRED, A.B. Smith 1897.....Lebanon, N. H.
German, Education, English
- HOUGH, MARY ELIZABETH, A.B. Smith 1897.....Lebanon, N. H.
French, German, Philosophy
- HOUGH, VIRGINIA, A.B. 1912.....New York City
English
- HOWARD, JAMES MERRIAN, A.B. Yale 1909.....New York City
History
- HOWE, ALICE C., A.B. Wellesley 1895.....Fayville, Mass.
Latin
- HOXSEY, GORDON DOUGLAS, A.B. 1910.....New York City
History
- HSU, CHIH, B.S. Illinois 1912, A.M. Penn. 1913.....New York City
Economics, Sociology
- HUANG, CHINTAO, B.S. Pei-Yang 1912.....Amoy, China
Mining, Metallurgy, Geology
- HUBBARD, FLOYD MORSE, A.B. Colgate 1905.....Coopers Plains, N. Y.
Constitutional Law, Administrative Law, Political Economy
- HUGUENIN, CHARLES, B.S. École Normale 1902.....New York City
Romance
- HUGHES, THOMAS, A.B. Allegheny 1912.....New York City
English
- HULL, LILLIAN PRESTON, A.B. Smith 1902.....Newark, N. Y.
Social Economy
- HUME, THOMAS, A.M. North Carolina 1900.....Chapel Hill, N. C.
English, Comparative Literature
- HUMMEL, EDWARD JOHN, A.B. Southern California 1913.....Los Angeles, Calif.
History, Sociology, Philosophy

- HUMPHREY, MARTHA KING, A.B. Smith 1895.....New York City
Comparative Literature, History
- HUNT, HELEN TRUE, A.B. Vassar 1904, A.M. Wisconsin 1908.....New York City
History
- HUNT, MABEL MUNGEAN, A.B. Cornell 1912.....Mt. Vernon, N. Y.
German
- HUNTER, STANLEY ARMSTRONG, A.B. Princeton 1910.....Riverside, Calif.
Sociology
- HURXTHAL, FERDINAND THOMAS, B.L. Ohio Wesleyan 1911.....Rouceverte, W. Va.
Sociology, Philosophy
- HUTTON, SARAH ELIZABETH, A.B. N. Y. Normal 1905.....New York City
Botany
- IKEMOTO, SEICHI EMERSON, A.B. Park 1912.....Yamaguchi, Japan
Sociology
- IMES, WILLIAM LLOYD, A.B. Fiske 1910, A.M. 1912.....New York City
Sociology
- JABLOUWER, BENJAMIN, B.S. C. C. N. Y. 1912.....New York City
Physics, Education
- JACKSON, FRANCES HAMNER, A.B. 1908, A.M. 1913.....Philadelphia, Pa.
Mathematics, Mathematical Physics
- JACOBS, ELBRIDGE CHURCHILL.....Burlington, Vt.
Geology, Mineralogy
- JAFFE, LOUIS R., A.B. C. C. N. Y. 1910.....New York City
History
- JAFFRAY, JULIA KIPPEN.....Galt, Can.
Social Economy
- JAHN, AUGUST EDWARD, A.B. Huron 1912.....Sumner, Ia.
Sociology
- JAMES, ANNIE, A.B. Texas 1907.....Belton, Tex.
History
- JENNINGS, ELROY JEFFERY, A.B. St. Stephens 1912.....New York City
Greek
- JENNINGS, LUCILE, B.L. Converse 1904.....Spartanburg, N. C.
English, Education
- JOCKINSEN, JOHN PETER, A.M. 1912, A.B. Lawrence 1911.....Sheboygan, Wis.
Philosophy
- JOHNSON, AGNES, A.B. Randolph-Macon 1913.....Alderson, W. Va.
Sociology, Social Economy
- JOHNSON, ELIZABETH, A.B. Kansas 1899.....Duncan, Okla.
English, Education
- JOHNSON, FRANKLIN, JR., A.M. 1898, A.B. Chicago 1895.....New York City
Sociology, Economics, Social Economy
- JOHNSON, LUCETTE PITNEY, A.B. 1907, A.M. 1913.....New York City
History
- JOHNSTON, MARIE L., A.B. New Rochelle 1910.....New York City
English
- JONES, JOHN CATRON, A.B. Transylvania 1911.....Barbourville, Ky.
History
- JONES, LETHA, Ph.B. Cornell, Ia. 1903.....Villisca, Ia.
Psychology, Philosophy, Education
- JONES, MARGARET ELSIE, A.B. N. Y. Normal 1911.....New York City
Comparative Literature
- JOYCE, MARY MARGARET, A.B. N. Y. Normal 1913.....New York City
History
- JUD, FRIEDOLINA CATHARINE, B.S. 1912, A.M. 1913.....Jersey City, N. J.
Geology

- KAHN, ALFRED H., A.B. Yale 1908.....New York City
Semetics, Philosophy
- KAPLAN, HYMAN, B.S. C. C. N. Y. 1913.....New York City
Sociology, Political Economy
- KAPLAN, MICHAEL, A.B. 1913.....New York City
History, Education, Economics
- KAPP, RAY EMERICH, A.B. N. Y. Normal 1911.....New York City
Education
- KATZ, ANNA, A.B. N. Y. Normal 1912.....New York City
History
- KATZ, MILTON JULIAN, B.S. C. C. N. Y. 1911.....New York City
Botany, Zoölogy
- KATZ, MOLLIE, A.B. 1913.....New York City
Social Economy
- KAUFMAN, REUBEN, A.M. 1912, A.B. Clark 1911.....New York City
History, Sociology, Anthropology
- KEIL, GÜNTHER, A.B. 1913.....New York City
German
- KELLAM, HARRY MALCOLM, A.B. Kenyon 1912.....New York City
Economics, Sociology
- KELLEY, MARGARET F., A.B. 1913.....New York City
Chemistry
- KELLS, LYMAN MORSE, A.B. Minnesota 1910.....Sauk Center, Minn.
Mathematics, Education
- KEMP, WILLIAM CULLEN BRYAN, A.B. 1900, A.M. 1901, LL.M. 1901..New York City
International Law, Geology
- KENDALL, BURTON WARREN, B.S. Mass. Inst. Tech. 1906.....Gardner, Mass.
Physics
- KENNEDY, ELIZABETH FRONDE, A.B. College for Women 1897.....Clinton, S. C.
English, Comparative Literature
- KENNEDY, MARY LAURENCE, A.B. Woman's College 1909.....Troy, S. C.
Chemistry, Geology
- KENNERLY, MARTHA MASIN, B.S. Adelphi 1903.....White Post, Va.
Botany
- KERBECK, JERRY LEONARD, B.S. 1913.....New York City
English
- KETELS, LUTHER HENRY, A.B. 1912.....Newark, N. J.
Sociology, Philosophy
- KETCHUM, BERTHA LOUISE, Ph.B. Syracuse 1906.....Owego, N. Y.
History
- KEUFFEL, CARL W., E.M. Stevens 1911.....Hoboken, N. J.
Mathematical Physics
- KEUNE, EMMA, B.S. 1913.....Jersey City, N. J.
German
- KEYES, DONALD BABCOCK, B.S. New Hampshire 1913.....Needham, Mass.
Chemistry
- KIEFFER, GEORGE LINN, A.B. Pennsylvania 1909.....Gettysburg, Pa.
History, Sociology
- KIERNEFF, ARTHUR WALLIS, A.B. California 1904.....Berkeley, Calif.
History, Sociology, Social Economy
- KING, EMANUEL DAVID, A.B. 1913.....New York City
History, Latin
- KINGSLAND, MARION.....South Orange, N. J.
History
- KINNERS, HANNAH CATHARINE, A.B. N. Y. Normal 1911.....New York City
English

- KINNEY, MURIEL, A.M. 1910, A.B. Western Reserve 1900.....New York City
English, Romance
- KLAFTER, SIMEON HENRY, A.B. C. C. N. Y. 1909.....New York City
German
- KLEIN, ARTHUR JAY, A.B. Wabash 1906.....New York City
History
- KLEIN, PHILIP, A.B. C. C. N. Y. 1911.....New York City
Social Economy
- KLEPETKO, ERNEST, B.S. Michigan College of Mines 1911.....Lima, Peru
Metallurgy, Geology, Chemistry
- KLIGLER, ISRAEL JACOB, B.S. C. C. N. Y. 1911.....New York City
Chemistry, Zoölogy
- KLINE, ROBERT F., Ph.B. Muhlenberg 1911.....Allentown, Pa.
Sociology
- KLIPSTEIN, ERNEST HOLTEN, A.B. Princeton 1912.....East Orange, N. J.
Chemistry
- KNAPP, ANNIE MAY, Ph.B. Syracuse 1892.....Binghamton, N. Y.
History
- KNAUTH, OSWALD WHITMAN, A.B. Harvard 1909.....Princeton, N. J.
Economics, Sociology, Social Economy
- KNIGHT, EDWARD CARLETON, B.S. Harvard 1901.....Manchester, Mass.
Philosophy
- KNIGHT, SAMUEL HOWELL, A.B. Wyoming 1913.....Laramie, Wyo.
Geology, Chemistry
- KOBAYASHI, JACOB HIKOGORO.....Tokio, Japan
History, Philosophy
- KOBAYASHI, RYOKICHI.....Kanazawa, Japan
Economics, History
- KOEHLER, HENRY REUBEN, A.B. Lafayette 1910.....Hazleton, Pa.
Education
- KOJIMA, SHIGEO, A.M. 1913, A.B. St. Pauls 1912.....New York City
Philosophy, Chinese
- KOSS, ISABEL GLEN, A.B. 1912.....New York City
History
- KRAUS, WALTER MAX, A.B. Harvard 1909, M.D. Johns Hopkins 1913. New York City
Chemistry
- KRAVITZ, AARON.....New York City
Economics
- KREINER, HARRY PETER.....Newark, N. J.
Comparative Literature
- KREINER, LILLIAN MAY, B.S. 1910, A.M. 1913.....Newark, N. J.
Comparative Literature
- KROLFIFER, JULIUS FREDERIC, A.B. 1913.....New York City
Sociology, History
- KUANG, YING-CHIEH, A.M. 1913, A.B. Pei Yang 1907.....Canton, China
Geology, Mineralogy, Mining
- KUENY, FRANÇOIS JOSEPH, Litt.B. Paris 1897.....New York City
Romance, English
- KUPFER, WALTER SCOTT, B.S. 1913.....Leonia, N. J.
Indo-Iranian, Sociology, Economics
- KURZ, HARRY, A.M. 1911, A.B. C. C. N. Y. 1909.....New York City
French
- KUSH, ELVIRA THEKLA, A.B. Vassar 1913.....New York City
Psychology, Economics
- KVETENSKY, LOUIS, B.S. Coe 1913.....New York City
Philosophy

- LA DOW, STANLEY VAUGHAN.....New York City
History, Philosophy
- LAMBIE, MARGARET, A.B. Vassar 1907.....Northampton, Mass.
Romance
- LAMONT, FLORENCE, A.M. 1898, B.S. Smith 1893.....Englewood, N. J.
Philosophy
- LAMPRECHT, STERLING POWER, A.B. Williams 1911, A.M. Harvard 1912, Cleveland, Ohio
Philosophy
- LANDON, MARY LOUISE, A.B. Vassar 1907.....Bordentown, N. J.
Chemistry
- LANDY, GEORGE, A.B. C. C. N. Y. 1912.....New York City
Social Economy, Economics, Public Law
- LANE, GAIL L., B.L. Occidental 1907.....Enid, Okla.
Social Economy
- LANGDON, MARY CONSUELO, A.B. New Rochelle 1913.....Englewood Cliffs, N. J.
English, Comparative Literature
- LANGMAN, HARRY, B.S. C. C. N. Y. 1911.....New York City
Mathematics
- LANGTON, WILLARD S., B.S. Utah Agr. 1896.....Logan, Utah
Mathematics, Education
- LASHER, WILLIAM REUBEN, Ph.B. St. Lawrence 1899.....New York City
Mathematics
- LATHROP, MARY ALINDA, Ph.B. Cornell 1896.....Montclair, N. J.
French
- LATHAM, MARCIA LOUISE, A.M. 1908, B.S. North Carolina 1900....New York City
Mathematics
- LATHAM, MINOR WHITE, A.M. 1912, A.B. State Coll. for Women 1901, Hernando, Miss.
English, French, Anthropology
- LATZKE, PAULINE, A.B. 1913.....New York City
English, French
- LAU, ROBERT FREDERICK, A.B. 1908, A.M. 1910.....Mendham, N. J.
Semetics
- LAW, RUTH, Ph.B. Franklin 1910.....North Vernon, Ind.
History
- LAWRENCE, G. WALTER, A.B. Emporia 1911.....New York City
Psychology, English
- LAWRENCE, IRENE, A.B. Vassar 1912.....New York City
Social Economy
- LAWSON, LEONARD AXEL, A.M. 1911, A.B. Upsala 1909.....Kenilworth, N. J.
History, Sociology
- LEAVELL, ADDIE LETA.....Fulton, Mo.
German, French
- LEE, PORTER RAYMOND, A.B. Cornell 1903.....New Rochelle, N. Y.
Social Economy
- LEGGETT, JOHN DWIGHT.....New York City
History
- LEISTNER, IDA, A.B. N. Y. Normal 1912.....New York City
German
- LEMKAU, JOHN HENRY, A.B. Central Wesleyan 1901.....New York City
Sociology
- LEVERING, BERTON, A.B. Marietta 1912.....New York City
History
- LEVINE, VICTOR EMANUEL, A.M. 1911, A.B. C. C. N. Y. 1909.....New York City
Physiology, Bacteriology
- LEWIN, ELLEN, A.B. N. Y. Normal 1913.....New York City
German

- LEWIS, ERNEST DORMAN.....New York City
A.B. Leland Stanford 1891, A.M. 1894, A.M. Harvard 1897
Economics
- LICHAO, AN FU, E.M. Technical China 1910.....Hunan, China
Geology, Mineralogy
- LIEBOWITZ, BENJAMIN, E.E. 1911.....New York City
Physics, Mathematics
- LILLY, CHARLES CASTNER, A.B. Harvard 1909.....Waldoboro, Me.
Social Economy
- LIMBURG, IRMA.....New York City
History
- LIND, JACOB J., A.B. 1913.....New York City
Latin
- LINDSAY, JEAN STERLING, A.B. N. Y. Normal 1912.....New York City
English
- LINEHAN, PAUL HENRY, A.B. Harvard 1902.....New York City
Mathematics
- LIPSCHUTZ, LEO, B.S. C. C. N. Y. 1911.....New York City
History
- LITTLE, FRANCIS KINZER, A.B. Western Maryland 1905.....New York City
History
- LOBSENZ, JOHANNA, A.B. N. Y. Normal 1911.....New York City
German
- LODGE, MABEL, A.B. Chicago 1908.....Dover, Dela.
English, Comparative Literature
- LOGIN, CHARLES, A.B. C. C. N. Y. 1907.....New York City
English
- LONG, DORIS, A.B. 1910, A.M. 1911.....New York City
Economics
- LONG, SHIRLEY VIRGINIA, A.B. Florida State 1907, A.M. 1908.....Memphis, Tenn.
English
- LOTZ, ELSA, B.S. 1912.....New York City
German
- LOWENSTEIN, GABRIEL ABRAHAM, B.S. 1913.....New York City
Chemistry, Physics
- LOWERY, MILLARD LESLIE, A.B. Dennison 1908, A.M. 1909.....Blanchester, Ohio
English
- LOWREY, LAWRENCE TYNDALE, B.S. Mississippi 1909, A.M. 1913, Blue Mountain, Miss.
History, Economics, English
- LUBARSKY, LOUIS HENRY, A.M. 1911, B.S. C. C. N. Y. 1904.....New York City
Economics
- LÜKEN, HINRICH HERRMANN.....New York City
Economics
- LYNCH, HAROLD ARTHUR, A.B. Washington 1910.....New York City
Philosophy
- LYNCH, LAWRENCE ROBINSON, A.B. Ohio Wesleyan 1913.....Clarksburg, W. Va.
Economics
- MCCARTNEY, FLORA GEORGIA, A.B. Leland Stanford 1913.....Sioux Falls, S. D.
History, Economics
- MCCLEES, HELEN, A.M. 1913, A.B. Ohio State 1910.....Columbus, Ohio
Greek
- MCCLELLAN, CORA, A.B. Peabody 1911.....Chattanooga, Tenn.
Latin, Greek, English
- MCCLINTOCK, ANNA COLTON, B.L. Smith 1902.....Denver, Colo.
Social Economy

- McCLURE, CHARLES WARREN, A.B. Baldwin 1912.....Madison, N. J.
Sociology
- McCLURE, WALLACE MITCHELL, A.B. Tennessee 1911.....Knoxville, Tenn.
Economics, History
- McCULLOUGH, EDITH VAN BENTHUYSEN.....New York City
Sociology
- McCURRY, DANIEL ERNEST, A.M. 1912, A.B. Mo. Valley 1909.....New York City
Sociology, Economics
- McDANIEL, JAMES ERSKINE, A.B. Erskine 1909.....New York City
English
- McELVARE, ROWLAND ROBBINS, A.B. 1913.....New York City
Economics, Sociology
- McEWEN, ROBERT STANLEY, A.B. Western Reserve 1911, A.M. 1912, Cleveland, Ohio
Biology, Anthropology
- McFALL, ROBERT JAMES, A.B. Geneva 1912.....Somerset, N. S., Can.
Economics, Sociology
- McGRATH, JULE GRACE, A.B. N. Y. Normal 1911.....New York City
Geology
- McKENZIE, ISABEL, A.B. 1912.....East Orange, N. J.
History, Economics
- McKEON, MARGARET MARY, A.B. N. Y. Normal 1913.....New York City
Latin
- McLEAN, NYRA, A.B. 1909.....New York City
Economics
- McLEOD, AGNES ARGYLE, B.E. Bridgewater 1903.....Bridgewater, Va.
English
- McNEELY, BESSIE HORTENSE, Ph.B. Mo. Valley 1896.....Cedarvale, Kans.
Sociology, English
- McPHERSON, OSCAR HARMON, A.B. Princeton 1906.....New York City
English
- MACAULAY, FREDERICK ROBERTSON, A.B. Colorado 1908.....Boulder, Colo.
Economics
- MACFARLAND, ELIZABETH MACE, Ph.B. Chicago 1907.....Danville, Ill.
Social Economy
- MACKAY, JESSIE THORNE, A.B. Toronto 1911.....New York City
History
- MACKLIN, EGBERT CHALMER, A.B. Indiana 1911.....Bryant, Ind.
History
- MACZUM, HENRIETTA, A.B. Cincinnati 1909, A.M. 1910.....Washington, D. C.
History
- MACLAY, WINIFRED CRAINE, B.L. Michigan 1895.....New York City
Economics
- MACLEOD, GRACE, B.S. Mass. Inst. Tech. 1901.....New York City
Chemistry
- MACPEAK, MARY AGNES, A.B. N. Y. Normal 1913.....New York City
History
- MACRURY, JOHN ALLISON, A.B. Washington & Jefferson 1909, Port Morien, N. S., Can.
Economics
- MACRURY, ANGUS GORDON, A.B. Washington & Jefferson 1909, Port Morien, N. S., Can.
Sociology
- MAGARY, ALVIN EDWIN A.M. 1913.....South Orange, N. J.
Sociology
- MAHLER, ANNA BELLE, B.S. 1912.....New York City
Comparative Literature, English
- MAHONEY, CARL KETRON, A.B. Chattanooga 1909.....Madison, N. J.
Philosophy

- MAHONEY, JAMES, A.B. Emory & Henry 1912.....Bristol, Va.
English, Comparative Literature
- MANKEWICZ, FRANK.....New York City
Germanic
- MANNING, CLARENCE AUGUSTUS, A.B. 1912, A.M. 1913.....New York City
Greek, Latin
- MARDFIN, VICTOR H., B.L. 1913, B.S. C. C. N. Y. 1908.....New York City
Economics
- MARES, LAZARUS EMANUEL, B.S. 1910, A.M. 1911.....New York City
English
- MARREN, MAUD LOUISE, B.S. 1908.....Asbury Park, N. J.
English
- MARTIN, MELVIN ALBERT, A.M. 1905, A.B. Richmond 1898.....Richmond, Va.
Psychology, Education
- MARTIN, THEODORE DAY, A.B. Hamilton 1911, A.M. 1912.....New York City
Education
- MARTIN, VELLA, A.B. Lombard 1907, A.M. Chicago 1912.....New York City
Social Economy, Sociology
- MASTICK, SEABURY CONE, A.B. Oberlin 1891, LL.B. California 1894....Pleasantville
Chemistry
- MAY, MARK ARTHUR, A.B. Maryville 1911, Ph.B. Chicago 1912.....Telford, Tenn.
Psychology
- MAYER, THERESA, A.B. 1911.....New York City
History, Anthropology, Philosophy
- MEHLER, ELSA S., A.B. 1912.....New York City
History
- MERIWETHER, ROBERT LEE, A.B. Wofford 1912.....Allendale, S. C.
History
- MERRILL, BESSIE HALL, B.S. Alabama 1907.....Birmingham, Ala.
English, Comparative Literature
- MERRILL, GEORGE ABBOT, A.B. Colgate 1910.....Rahway, N. J.
History, Public Law
- MERRILL, HATTIE GRAY, B.S. Carnegie 1913.....Pittsburgh, Pa.
Chemistry
- METZ, BLANCHE STAFFORD, A.B. Pomona 1911.....New York City
Zoölogy
- METZ, CHARLES WILLIAM, A.B. Pomona 1911.....Sheridan, Wyo.
Zoölogy, Botany
- MEYER, AGNES ERNST, A.B. 1907.....New York City
Economics, Zoölogy
- MEYER, ANDREW JOHN, A.B. Rutgers 1900.....Jersey City, N. J.
History, Sociology
- MEYER, CHARLOTTE FRANCES, A.B. Western Reserve 1911.....Lakewood, Ohio
Sociology, Social Economy
- MEYER, CARL LUDWIG WILHELM, A.M. 1912, A.B. Michigan 1910..New York City
International Law, Roman Law, History
- MICHAEL, JOHN ANDREW, A.B. Western Reserve 1913.....Eaton, Ohio
Chemistry
- MIDDLETON, FLORENCE, B.S. 1910.....New York City
Botany
- MILLARD, WILLIAM JOHN.....New Orleans, La.
Geology, Mining
- MILLER, MARY AGNES, A.B. 1908.....New York City
Comparative Literature
- MILLER, SERENA, A.B. Swarthmore 1905.....Germantown, Pa.
Latin

- MILLER, SPENCER, JR., A.B. Amherst 1912.....South Orange, N. J.
History, Economics
- MINER, JOHN LYNN, A.B. Allegheny 1909.....Sharon, Pa.
History, Sociology
- MINER, ROY WALDO, A.B. Williams 1897.....New York City
Zoölogy
- MINTZ, DAISY, A.B. N. Y. Normal 1913.....New York City
History, Social Economy
- MITCHELL, BENJAMIN ERNEST, A.M. Vanderbilt 1908.....New York City
Mathematics, Mathematical Physics
- MITCHELL, CYPRUS RICHARD, A.M. Missouri 1913.....New York City
Philosophy
- MIYAGAWA, SETSURO JOE, B.C.S. N. Y. Univ. 1913.....New York City
Economics
- MOLLER, VENNETTE CRAM, B.S. Wellesley 1888.....New York City
English, Comparative Literature
- MONROE, EDNA CATHARINE, B.L. California 1903.....Monrovia, Calif.
History, Sociology
- MONTGOMERY, SARAH LOUISE, B.S. 1911, A.M. 1912.....New York City
Psychology
- MOOK, CHARLES CRAIG, B.S. 1912.....Metuchen, N. J.
Geology
- MOON, EVANGELINE ADA, A.B. N. Y. Normal 1906.....New York City
Geology
- MOON, PARKER L., B.S. 1913.....New York City
History, Constitutional Law
- MOORE, ALFRED DOUGLASS, A.B. Wesleyan 1910.....South Brownsville, Pa.
Sociology
- MORGAN, A. RUFUS, A.B. North Carolina 1910.....Penland, N. C.
Sociology
- MORRILL, FRANCES URSULA, A.B. Smith 1907.....New York City
French
- MORRIS, FREDERICK KÜHNE, B.S. C. C. N. Y. 1904.....New York City
Zoölogy
- MORRIS, GERTRUDE ELIZABETH, A.B. 1913.....New York City
English, Comparative Literature
- MORRIS, MAY J., A.M. 1910, A.B. N. Y. Normal 1902.....New York City
Geology
- MOSHER, JOSEPH ALBERT, A.M. 1911, Ph.B. Syracuse 1906.....New York City
French, Economics
- MOSKOWITZ, DAVID H., A.B. 1913.....New York City
Education, Mathematics
- MOUNTSIER, MABEL, A.M. 1910, A.B. Michigan 1906.....New York City
History
- MOUNTSIER, ROBERT, A.M. 1910, A.B. Michigan 1909.....New York City
English, German
- MOWRY, THOMAS GARRETT, A.B. Washington & Jefferson 1911.....Derry, Pa.
Philosophy
- MOKCEY, MARY ELIZA, Ph.B. Syracuse 1897, A.M. Oberlin 1907..Reading Center, N. Y.
Psychology, Education
- MUESER, F. ALFRED, A.B. C. C. N. Y. 1911.....New York City
German, Comparative Literature
- MULLER, ADA HERMINIE, A.B. 1908.....New York City
Social Economy
- MULLER, THEODORE.....New York City
Botany, Chemistry

- MURATA, TOICHI, A.B. Wofford 1910.....Yamaguchi, Ken, Japan.
Philosophy
- MURAVCHIK, CHAIM.....New York City
Economics
- MURAVCHIK, RACHEL B., A.M. 1913.....New York City
Sociology
- MURCHISON, CLAUDIUS TEMPLE, A.B. Wake Forest 1911.....Yanceyville, N. C.
Economics, Sociology, History
- MURPHY, CLARA DELLA, A.B. Wellesley 1907.....Pittsfield, Ill.
Mathematics, Mathematical Physics
- MURPHY, EDITH H., A.B. N. Y. Normal 1911.....New York City
English
- MUSGRAVE, EDITH, A.B. N. Y. Normal 1911.....New York City
English
- MUSSAENS, MARIE GUNTHER, A.B. Smith 1906.....Linton, Va.
French
- MUSTE, ABRAHAM JOHN, A.B. Hope 1905.....New York City
Philosophy
- MUTCHUROR, JAMES RALPH, A.B. Toronto 1913.....Glen Huron, Ont., Can.
Social Economy, Political Economy
- MUTSCHELLER, ARTHUR, B.S. 1913.....New York City
Chemistry, Physics
- MYERS, ALFRED STUART, A.B. 1907, A.M. 1913.....New York City
English
- MYERS, ELEANORE, A.B. 1912.....New York City
English, Comparative Literature
- MYRICK, CHRISTINE, A.B. Wellesley 1911.....Springfield, Mass.
English, Education
- NAHON, ZARITA, A.B. N. Y. Normal 1910.....New York City
Romance
- NAKAMURA, YASUNA, A.B. Chino, Japan 1903.....New York City
Psychology
- NAMMACK, ELIZABETH FRANCES, A.B. 1895, A.M. 1896.....New York City
Latin
- NANKIN, ISAAC, A.B. 1913.....New York City
Latin, Greek, History
- NAUMBURG, AGNES, A.B. Vassar 1909.....New York City
English
- NEFF, EMERY EDWARD, A.B. Ohio Wesleyan 1913.....Delaware, Ohio
English, Comparative Literature
- NEIFELD, MORRIS, A.B. Cornell 1913.....New York City
Psychology
- NELSON, EDGAR, A.B. Cornell 1912.....Ithaca, N. Y.
Biology, Chemistry
- NEUMAN, LIBBY, A.B. N. Y. Normal 1912.....New York City
German
- NEUMANN, HENRY, A.B. C. C. N. Y. 1900, Ph.D. N. Y. Univ. 1906.....New York City
Philosophy
- NEUN, DORA ESTELLE, A.M. 1913, B.S. Rochester 1912.....Rochester, N. Y.
Chemistry
- NEVILLE, ELEANOR STEVENS, B.S. 1911.....New York City
English
- NEWELL, FREDERICK BUCKLEY, A.B. Wesleyan 1913.....New York City
Social Economy
- NEWHALL, ALBERT HITCHINGS, A.B. Harvard 1898, A.M. 1899.....New York City
Social Economy

- NILES, ELLA CAPERS JONES.....Madison, N. J.
Philosophy
- NOBLE, KATHARINE, A.B. 1913.....New York City
English, Comparative Literature
- NOSCHKE, ADOLPH, A.B. C. C. N. Y. 1912.....New York City
History
- NOWLAN, FREDERICK STANLEY, A.B. Acadia 1908, A.M. Harvard 1909, New York City
Mathematics, Physics
- NUDD, HOWARD WEBSTER, A.M. 1912, B.S. Temple 1907.....New York City
Sociology
- NYI, JOSHUA ZAU TSUNG, B.S. 1913.....Hangchow, China
International Law, Administrative Law
- OATES, ARTHUR RAYMOND, A.B. Wisconsin 1913.....Darlington, Wis.
Sociology
- OELLRICH, PAULA, A.B. 1912.....East Orange, N. J.
German
- OGILVIE, PAUL MORGAN, A.B. 1913.....Los Angeles, Calif.
International Law
- OLDS, LELAND, A.B. Amherst 1912.....Amherst, Mass.
History
- O'LEARY, PATRICK.....New York City
Sociology, Psychology
- OLIN, JESSIE ELVIRA, A.B. St. Lawrence 1905.....Park Ridge, N. J.
History
- OLINGER, HENRI CESAR, B.S. 1909.....New York City
Romance
- OSBORN, MRS. LOIS STEWART.....San Fernando, Philippine Islands
Education, Comparative Literature
- OSGOOD, MARION, A.B. Leland Stanford 1909.....San Jose, Calif.
Social Economy
- OSGOOD, MARION STICKNEY, A.B. Mt. Holyoke 1912.....New York City
History
- O'SULLIVAN, THOMAS FRANCIS, A.B. 1912, L.L.B. New York Law 1912, New York City
Social Economy, History
- OTSUKA, SETSUJI, A.B. Doshisha Japan 1911.....Kyoto, Japan
Philosophy
- OTTO, CHARLES FRANCIS, A.M. 1913, A.B. Adelphi 1912.....New York City
History
- OU, LUM, A.B. Military China 1904.....Canton, China
Economics, History
- OVERMAN, FRANCES DOROTHY, A.B. Indiana 1909.....New York City
English, Education
- OWEN, CHANDLER.....New York City
Social Economy
- OWENS, JULIA LOUISE, B.S. 1911.....New York City
Education
- PAGE, ELIZABETH M., A.B. Vassar 1912.....New York City
History
- PAGE, IRMA BROWN, Ph.B. Boston 1898.....New York City
History
- PALMER, EDNA ADELINE, A.B. 1910, A.M. 1913.....New York City
Economics
- PAO KAN, LOH, B.S. Illinois 1913.....Soo Chow, China
Chemistry
- PARK, JOSEPH HENDERSHOT, A.B. 1912, A.M. 1913.....Wyoming, N. J.
History, Economics

- PARKS, GEORGE BRUNNER, A.B. Amherst 1911.....New York City
English, Philosophy, Comparative Literature
- PARMELEE, FAITH, A.B. Oberlin 1906.....Oberlin, Ohio.
Social Economy
- PARSONS, ALICE TULLIS LORD, B.L. Smith 1897.....New York City
English, Journalism
- PARSONS, LLEWELLYN S.....New York City
Philosophy
- PASTEL, EVELYN, A.B. N. Y. Normal 1911.....New York City
English
- PATCHEN, MARY AMORET, A.B. Wellesley 1906.....New York City
History
- PAYNTER, RICHARD HENRY, A.B. 1912, A.M. 1913.....New York City
Psychology, Education
- PEART, EDWARD NEWTON, Ph.B. Oskaloosa 1912.....Jamaica, W. I.
Philosophy
- PECK, EMILY SEYMOUR, A.B. Adelphi 1909.....New York City
Comparative Literature
- PECKHAM, HARRY HOUSTON, A.B. Hiram 1906, A.M. Chicago 1911.....Hiram, Ohio.
English, Comparative Literature
- PENNISTON, JOHN BENJAMIN, B.S. Missouri 1912.....New York City
Journalism, Economics
- PERKY, SCOTT HENRY, A.M. Cornell 1909.....Ithaca, N. Y.
Sociology, Economics, History
- PERO, SALLIE EUGENA, A.B. 1913.....New York City
Mathematics, Education
- PERRY, EDWARD OWEN, A.B. Hamilton 1903.....New York City
History, Constitutional Law
- PERRY, LAURA CELESTIA, A.B. Oberlin 1908.....Jefferson, Ohio.
English, Comparative Literature
- PETERS, IVA LOWTHER, A.B. Syracuse 1901.....Fishkill, N. Y.
Sociology, History
- PETERSON, LARS HYRUM, A.B. Utah 1911, A.M. 1912.....Huntsville, Utah.
History, Economics
- PETRI, EDWARD.....New York City
Philosophy, English
- PHIFER, LYNDON BURKE, A.B. Missouri 1913.....Girard, Kans.
Journalism, Economics, History
- PHILBRICK, MAX PATTEN, A.B. Colby 1902.....Hartford, Conn.
French
- PHILLIPS, HUBERT, A.M. 1913, A.B. Chattanooga 1908.....Dayton, Ohio.
History
- PHILP, MARY ISABEL, A.M. 1912.....Chateaugay, N. Y.
Philosophy
- PICKETT, WILLIAM JACKSON, B.S. 1909.....New York City
Mathematics
- PIERCE, ELIZABETH DENNY, A.B. Vassar 1910, A.M. 1912.....Englewood, N. J.
History, Greek
- PIERSON, WILLIAM WHATLEY.....River Falls, Ala.
A.M. 1912, A.B. Alabama 1910, A.M. 1911
History
- PLATT, ROSETTA FRANCES, A.B. 1910.....New York City
French
- PLATTEN, GLADYS IDA, A.B. Wellesley 1911.....New York City
History

- PLAUT, EDWARD, A.M. 1913, A.B. Princeton 1912.....New York City
Chemistry
- POPE, HELENE MAUS, A.B. Mt. Holyoke 1904.....Clinton, Mass.
Chemistry
- PORTER, ALEXANDER MURRAY, A.B. Dalhousie 1909.....Stellarton, N. S., Can.
Social Economy
- POST, HENRY ATTWELL, A.B. Hobart 1912.....Hoboken, N. J.
Philosophy
- POWELL, ALMA WEBSTER, Mus.B. 1910, A.M. 1911.....New York City
Sociology
- POWELL, LUCY REED, A.B. 1913.....Seattle, Wash.
Greek, Latin, History, Education
- PRATT, MARION, A.B. Cornell 1900, A.M. Syracuse 1902.....New York City
Comparative Literature
- PRICE, ERNEST BATSON, A.B. Rochester 1913.....New York City
International Law, Constitutional Law, History
- PRICE, JULIUS JOSEPH, A.M. 1911, A.B. Pennsylvania 1908.....New York City
Syriac
- PRICE, WILLARD DE MILLE, A.B. Western Reserve 1909.....Cleveland, Ohio
Social Economy, Sociology
- PRIOR, CHARLES E., JR., E.M. Colo. School of Mines 1913.....New York City
Mining, Chemistry, Geology
- PROUT, FRANK RICE, A.B. Trinity 1911.....Rensselaerville, N. Y.
Philosophy, Psychology
- PUORRO, MICHAEL, B.S. 1909, A.M. 1911.....New York City
Chemistry
- PURDY, CONSTANCE.....New York City
French
- QUACKENBOS, GEORGE PAYN, A.B. 1900, A.M. 1901.....New York City
Indo-Iranian
- QUANDER, NELLIE MAY, A.B. Howard 1912.....New York City
Social Economy
- RAMSAY, ENDORA WOOLFOLK, A.B. Richmond 1911.....Greenville, S. C.
Journalism
- RANSON, WILLIAM HARRISON, B.S. Penn. State 1910, M.S. 1913.....Dover, N. J.
Chemistry
- RASZEWSKA, GABRIELLE AIMÉE, A.B. N. Y. Normal 1912.....New York City
English
- RAVITCH, MAX, A.B. Missouri 1909, A.M. Illinois 1910.....New York City
English
- READ, FLORENCE W., A.B. 1910.....New York City
History
- REAMS, EDWARD ARNOLD, A.B. Kansas Wesleyan 1913.....Selina, Kans.
Sociology, History, Economics
- RAY, FREDERICK, A.M. 1913.....Short Hills, N. J.
Physics, Mathematics
- REED, HOLMER BLOSSER.....Huntington, Ind.
A.B. Indiana 1907, A.M. 1909, Ph.D. Chicago, 1912
Psychology, Education, Philosophy
- REED, LOUIS ARCHIBALD.....New York City
Sociology
- REEDER, GRACE, A.B. 1910.....Hastings, N. Y.
Social Economy
- REEDER, NELLIE MAY, A.B. Wellesley 1911.....Hays, Kans.
Sociology, Economics

- REESE, CLARE HILDEGARDE, A.B. 1912.....New York City
History
- REID, EDITH MAY, B.L. Smith 1900.....New York City
Social Economy
- REID, KATHERINE WILLESS, A.B. Vassar 1912.....Mt. Vernon, N. Y.
Botany
- REMMY, RUTH ELIZABETH, A.B. Smith 1913.....New York City
Comparative Literature, Education
- REUMANN, OTTO G., A.B. Syracuse 1913.....New Bedford, Mass.
Sociology
- RICE, WINFIELD LAWRENCE, A.M. 1913, A.B. Dartmouth 1903....New York City
History, French
- RICHARDS, EDNA HARRIET, A.M. 1903, B.L. Swarthmore 1898.....Salem, Ohio
German, Comparative Literature
- RICHARDSON, WILLIAM C., A.B. Cornell 1899.....New York City
Latin
- RIDEOUT, ZRITH RANSON, A.B. Pacific 1913.....San José, Calif.
English, Education
- RILEY, MORGAN THOMAS, A.B. Yale 1907.....New York City
Sociology
- RITT, HAROLD LOPIDES, B.S. 1901.....New York City
English
- RITTMAN, ANNA, A.B. Swarthmore 1910.....Salem, Ohio
History
- RITTMAN, WALTER FRANK, A.B. Swarthmore 1908, A.M. 1909....Sandusky, Ohio
Chemistry
- ROBBINS, EDWIN CLYDE, A.B. Iowa 1910, A.M. 1912.....Cedar Rapids, Ia.
Economics, Sociology
- ROBINSON, ALICE M., A.B. Mt. Holyoke 1895, A.M. 1901.....New York City
Mathematics
- ROBINSON, KARL DAVIS, B.S. 1912.....New York City
English
- ROCHESTER, MURIEL, A.M. 1912, A.B. N. Y. Normal 1908.....New York City
Philosophy
- ROESLER, MAX, Ph.B. Yale 1905.....Great Neck, N. Y.
Geology
- ROLL, ROSE, A.B. N. Y. Normal 1909.....New York City
German
- ROMIG, EDWIN BLAINE, A.B. Franklin & Marshall 1913.....Reading, Pa.
Sociology
- ROSE, SAMUEL EUGENE, A.B. Meridian 1911.....Hanea Path, S. C.
Philosophy, Sociology
- ROSENGARTEN, ISAAC, A.B. C. C. N. Y. 1908.....New York City
Syriac
- ROSENTHAL, DANIEL CRÉHANGE.....New York City
A.B. Syracuse 1906, A.M. Yale 1907
Romance
- ROSS, AUBREY COSSON, A.B. Missouri Valley 1912.....New York City
Sociology
- ROSS, FRANK ALEXANDER, A.M. 1913, Ph.B. Yale 1908....North Woodbury, Conn.
Sociology, Economics, Anthropology
- ROSS, WILLIAM NEELY, A.B. 1911, A.M. 1913.....Troy, N. Y.
History, Economics
- RUSHMORE, ELSIE MITCHELL, A.M. 1908, A.B. Vassar 1906.....New York City
History

- RUSSELL, ELMER BEECHER, Ph.B. Vermont 1906.....Burlington, Vt.
History, Roman Law
- RUSSEL, MARGARET, A.B. Washburn 1913.....Topeka, Kan.
English, Comparative Literature
- REYNOLDS, RUTH, A.B. Florida State 1908, A.M. 1909.....Tallahassee, Fla.
English
- RYAN, JOHN POWER, LL.B. 1913, A.B. Williams 1910.....New York City
Constitutional Law
- SACHS, SAMUEL, A.B. 1913.....New York City
English
- SAGE, PAULINE, A.B. Wellesley 1901.....Cincinnati, Ohio
Social Economy
- SAIT, UNA BERNARD, A.B. 1909, A.M. 1910.....New York City
Philosophy, Education
- SALOMON, ALICE L., A.B. 1908.....New York City
History
- SALTZBERG, FLORENCE BIRDIE, A.B. N. Y. Normal 1910.....New York City
English, Comparative Literature
- SALWEN, DOROTHY, A.B. 1911.....New York City
History
- SALZMAN, ANNA BEATRICE, A.B. 1913.....New York City
Social Economy
- SALZMAN, MARCUS, A.B. Cincinnati 1893.....Wilkes-Barre, Pa.
Semetics, History
- SAMPTER, JESSIE ETHEL.....New York City
Semetics
- SANBORNE, GEORGE GATES, A.B. Princeton 1910.....New York City
History, Education, Economics
- SANDERS, MARY SHIPP, A.B. Chicago 1906.....Georgetown, Tex.
Spanish, Comparative Literature, English
- SANDS, ELIZABETH ALBERTA, A.B. Syracuse 1913.....Jersey City, N. J.
Latin
- SCATHARD, GEORGE, A.B. Amherst 1913.....Oneonta, N. Y.
Chemistry
- SCHACHTER, M. FRANK, B.S. 1912, A.M. 1913.....New York City
Bacteriology, Botany, Zoölogy
- SCHAEFER, HUGO.....New York City
Chemistry
- SCHAUSS, DANIEL, A.B. Syracuse 1912.....Buffalo, N. Y.
English
- SCHLEICHER, VICTOR H., A.B. Indiana 1913.....Cumberland, Ind.
History
- SCHLEITER, FREDERICK, Ph.B. Chicago 1905.....Pittsburgh, Pa.
Philosophy, Psychology
- SCHLESINGER, GABRIEL, B.S. 1911.....New York City
History
- SCHLIFFER, WILLIAM HENRY, JR., A.B. Adelphi 1911.....New York City
Chemistry
- SCHLOSS, CARL, A.B. C. C. N. Y. 1912.....New York City
German
- SCHLUETER, EDGAR RICHARD, A.B. Washington 1911.....Oak Ridge, N. J.
History
- SCHMIDT, CLARA HELENE, A.B. 1906.....Mt. Vernon, N. Y.
Physics
- SCHNEER, A. HENRY, B.S. C. C. N. Y. 1909.....New York City
Mathematics

- SCHUTZ, META ELIZABETH, A.B. Adelphi 1906.....New York City
History
- SCHWARTZ, VIRGINIA M., B.S. 1912.....Saratoga Springs, N. Y.
Psychology
- SCHWARZ, ADOLPH ABRAHAM.....New York City
German, Philosophy
- SCHWARZTRAUBER, ERNEST EDWARD, A.B. Miami 1912.....Somerville, Ohio
Sociology, History
- SCHWEITZER, DAVID J., A.M. 1913, B.S. C. C. N. Y. 1912.....New York City
Social Economy, Sociology
- SCARLETT, ANDREW J., JR., A.B. Dartmouth 1910.....West Boylston, Mass.
Chemistry
- SCOTT, ERNEST LYMAN, B.S. Ohio Wesleyan 1902, M.S. Chicago 1911, New York City
Physiology, Botany
- SCOTT, HENRY MILLER, A.B. Nebraska 1909, A.M. 1911.....New York City
Sociology
- SCOTT, REGINALD HEBER, B.D. Berkeley Divinity 1905.....New York City
Philosophy
- SCRUGHAM, MARY, A.M. 1910, A.B. Kentucky State 1906.....Lexington, Ky.
History, Social Economy
- SEELY, CAROLINE EUSTIS, A.B. 1911.....New York City
Mathematics
- SEELYE, LAURENS HICKOK, A.B. Amherst 1911.....North Conway, N. H.
Philosophy
- SEIBERT, HARRIET, A.B. 1913.....New York City
English
- SELIGMAN, ISRAEL, B.S. C. C. N. Y. 1906.....New York City
English
- SELLERS, LEILA, A.B. Columbia, S. C., 1906, A.M. South Carolina 1912..Sellers, S. C.
English, Education
- SEMMES, DOUGLAS RAMSEY, A.B. Virginia 1912, A.M. 1913.....Covington, Va.
Geology, Mineralogy
- SESSIONS, JULIETTE, Ph.B. Michigan 1893.....Columbus, Ohio
History, Economics
- SHEAR, S. ALEXANDER, A.B. C. C. N. Y. 1904.....New York City
English
- SHEARS, LAMBERT ARMOUR, A.B. 1912.....New York City
German
- SHELLEY, GEORGE L., A.B. Union 1901, A.M. 1909.....East Orange, N. J.
Constitutional Law
- SHERIDAN, JOSEPH AUGUSTINE, B.S. 1913.....New York City
Mathematics
- SHEWMAKE, EDWIN FRANCIS, JR., A.B. William & Mary 1908.....Staunton, Va.
English, Comparative Literature
- SHIPLEY, JOSEPH TWADDELL, A.B. C. C. N. Y. 1912.....New York City
Comparative Literature
- SHROPSHIRE, OLIVE ESTEL, B.S. 1913.....Denton, Tex.
Latin, Greek
- SHULTZ, BIRL EARL, A.M. 1911, A.B. DePauw 1908.....Union City, Ind.
Constitutional Law
- SHUMWAY, WALDO, A.M. 1913, A.B. Amherst 1911.....New York City
Zoology, Geology
- SIEGRIST, MARY, B.S. 1912.....New York City
English
- SIMMONS, JAMES LAURENCE, A.B. North Carolina 1909.....Shelby, N. C.
Economics, Sociology, History

- SIMONDS, EUGENE FRANCIS, A.M. 1913, B.S. Sidney 1911.....Blacktown, N. S. W.
Mathematics
- SIMONS, JOHN SHIRE, A.B. Franklin & Marshall 1909.....Marietta, Pa.
Sociology
- SKEELE, ELIZABETH PLODGET, A.B. Mt. Holyoke 1913.....Hartford, Conn.
Social Economy
- SKIPP, HENRY JOHN, A.M. 1908, A.B. Denison 1904.....New York City
German
- SLOSSON, PRESTON WILLIAM, B.S. 1912, A.M. 1913.....New York City
History, Economics
- SMEALLIE, JOHN MORRIS, U. S. N. A. 1905.....Washington, D. C.
Constitutional Law
- SMERLING, FRANK A., B.S. C. C. N. Y. 1910.....New York City
English, Comparative Literature, German
- SMITH, AMY MAY, A.B. Ohio Wesleyan 1908.....Melrose, Mass.
Social Economy
- SMITH, GILBERT H., A.B. Trinity 1904.....Huntersville, N. C.
English
- SMITH, HELEN PORTER, A.B. Converse 1907, A.B. Smith 1908.....Abbeville, S. C.
English, Comparative Literature
- SMITH, RUSSELL GORDON, A.B. Richmond 1911.....Richmond, Va.
Economics, Sociology, History
- SMITH, WILLIAM EDGAR, A.B. Millikin 1913.....New York City
Sociology
- SOCKMAN, RALPH WASHINGTON, A.M. 1913, A.B. Ohio Wesleyan 1911, Mt. Vernon, Ohio
History
- SOKOHL, JACOB M., B.S. 1912.....New York City
Social Economy
- SOLOMON, MATILDA LILLIAN, A.B. N. Y. Normal 1913.....New York City
Zoology
- SPARE, BERNICE Y., A.B. Lafayette 1911.....New York City
Sociology
- SPRINGER, ALLAN PAUL, A.B. 1912.....New York City
Philosophy, Zoology
- STAMM, CAROLINE LOUISE, B.S. 1909, A.M. 1910.....Mt. Vernon, N. Y.
Germanic
- STANGMATT, MABEL VIOLA, A.B. Mt. Holyoke 1911.....Jersey City, N. J.
English, Comparative Literature
- STANTON, ADAM NATHANIEL, A.B. Colgate 1913.....Corning, N. Y.
Sociology
- STEEN, OSCAR A., A.B. Ohio Wesleyan 1908.....Carey, Ohio
English, Comparative Literature
- STEINMETZ, WILLIAM GEORGE, B.S. C. C. N. Y. 1913.....New York City
History
- STEPHENS, L. WALTER, A.B. Princeton 1910, A.M. 1912.....New York City
Philosophy
- STERN, ALÈNE, A.B. 1913.....New York City
English
- STERN, RICHARD MORRIS, A.B. C. C. N. Y. 1911.....New York City
History, Economics, Sociology
- STEUP, ROBERT BENJAMIN.....New York City
German
- STEVENS, MARY SYDNEY, A.B. Adelphi 1909.....Scarsdale, N. Y.
Latin
- STEVENSON, JOHN MCGOWN.....Dunedin, N. Z.
Philosophy

- STEWART, BRYCE MORRISON.....New York City
History, Social Economy
- STEWART, ELEANOR GRACE, B.S. 1911.....Pittsburgh, Pa.
Botany
- STONE, GRACE AGUSTA, B.S. 1913.....New York City
Botany
- STONER, T. W., A.B. Michigan 1908.....New York City
Constitutional Law
- STOWELL, CECILE ROBERTS, A.B. Radcliffe 1902.....New York City
Sociology
- STOWELL, WILLARD ALLEN, B.S. 1912.....Trenton, N. J.
Botany
- STRAUSS, PRESTON FRANKLIN, A.B. Franklin & Marshall 1909.....New York City
Sociology
- STRESEMAN, ADELE EMILY, A.B. N. Y. Normal 1912.....New York City
Astronomy, Physics
- STRODE, EUGENE HUDSON, A.B. Alabama 1913.....Wemopolis, Ala.
English, Economics
- STRYKER, CLARENCE WILSON, A.B. Union 1885.....New York City
History
- STUART, MARGARET WAGNER, A.B. Texas 1909.....Houston, Texas
Social Economy
- STURM, ALICE KERR, A.B. Michigan 1902.....Saline, Mich.
History, Sociology
- STURTEVANT, ALFRED HENRY, A.B. 1912.....Kushla, Ala.
Zoölogy, Botany
- SUFFERN, CHARLOTTE.....New York City
History
- SUTTON, BEATRIX, A.B. Vassar 1913.....New York City
Philosophy, Comparative Literature
- SUZUKI, KOJI, A.B. Doshisha Japan 1908.....Niigata, Japan
Philosophy
- SWANTON, RICHARD LEO, A.B. 1910.....New York City
Sociology
- SWEENEY, HAROLD JOHN PATTISON, A.B. Princeton 1912.....Trenton, N. J.
Philosophy
- SYLVANIA, LENA EVELYN VINCENT, A.B. Smith 1912.....New Bedford, Mass.
Romance, Comparative Literature
- SYLVESTER, IRENE WATERS, A.B. Mt. Holyoke 1911.....Passaic, N. J.
Sociology
- SYMONDS, ELEANOR L., A.B. N. Y. Normal 1912.....New York City
Botany
- TAKAHASHI, TASUO.....New York City
Jurisprudence
- TALBOT, STERLING JOHN.....New York City
Chinese
- TALLMAN, GLADYS GRIFFITH, A.B. 1911, A.M. 1913.....New York City
Psychology
- TALMAGE, HENRY, 2d, A.B. Harvard 1899, LL.B. N. Y. Law 1901..Netherwood, N. J.
International Law
- TANC, YOUNGLEE, B.S. 1913.....New York City
Constitutional Law, International Law, History
- TANNER, HERMAN BERYL, A.B. C. C. N. Y. 1906.....New York City
Philosophy
- TAPLIN, EARL GARFIELD, B.S. 1905.....Oswego, N. Y.
Mathematics

- TAPP, MARY MELLISA, A.B. Trinity 1910.....Kinston, N. C.
English, French
- TAVENNER, EUGENE, A.B. Nashville 1899.....Roanoke, Va.
Latin, Greek
- TAYLOR, JOHN THOMPSON.....New York City
A.B. Wofford 1908, A.M. Vanderbilt 1912
English, Comparative Literature
- TAYLOR, MARY SNYDER, A.B. Cornell 1902.....Leonia, N. J.
Mathematics
- TEA, MARY ANTOINETTE, A.B. N. Y. Normal 1905.....New York City
Romance
- TERAJIMA, TAIMON.....New York City
Indo-Iranian
- TERRILL, ARTHUR CLARK, E.M. Colorado School of Mines 1905....Glendale, Calif.
Geology, Mineralogy, Mining
- TERRY, LEON, B.S. Mass. Agr. 1912.....Springfield, Mass.
Chemistry, Bacteriology
- THERIOT, CELESTE.....South Orange, N. J.
History
- THOMAS, EVAN WELLING, A.B. Princeton 1912.....Lewisburg, Pa.
Economics
- THOMAS, HARRISON COOK, A.B. Hamilton 1909.....New York City
History
- THOMAS, LULA ELLA, B.S. 1910.....Baltimore, Md.
English
- THOMAS, MARY WOODS, A.B. Southwestern 1912.....La Grange, Tex.
English, Comparative Literature
- THOMASSON, RUTH McGRUDER, A.B. Richmond 1911.....Richmond, Va.
English, Comparative Literature
- THORNTON, RICHARD HURT, A.B. Virginia Christian 1907.....Blackstone, Va.
English, Comparative Literature
- THURSTON, HENRY WINIFRED, A.B. Dartmouth 1886.....New Milford, N. J.
Social Economy
- TIEDEMANN, KARL L., A.B. Washington 1912.....O'Fallon, Ohio
Comparative Literature
- TIERNEY, MYLES JOSEPH, A.B. Georgetown 1895, A.M. St. Francis 1897, New York City
Comparative Literature, English
- TIMMONS, WILLIAM JUDSON, B.S. 1913.....New York City
Public Law
- TODD, JOHN ROBINSON, A.B. Dickinson 1887, A.M. 1890.....Aberdeen, Md.
History
- TOEPLITZ, JEAN, A.B. N. Y. Normal 1913.....New York City
German, French
- TOMIMAS, SHUTARO, B.I. Tokio 1912.....Karatsu, Japan
International Law, Roman Law, Constitutional Law
- TOMPKINS, ELIZABETH MARIE, A.B. Vassar 1899.....Poughkeepsie, N. Y.
Botany
- TOWNSEND, SCHUYLER MALLERY, A.B. Syracuse 1908.....West Hoboken, N. J.
English
- TRAUGOTT, MARY ELIZABETH, A.B. N. Y. Normal 1912.....New York City
Mathematics
- TRIMBLE, HENRY BURTON, A.M. 1913, A.B. Roanoke 1907.....Ocean View, Va.
Sociology

- TRIPLETT, GRANVILLE HAMPDEN.....Shepherdstown, W. Va.
A.B. Washington & Lee 1903, A.M. Princeton 1904, LL.B. N. Y. Univ. 1911,
J.D. 1912
Constitutional Law
- TROTTER, THEOPHILE, B.S. 1910.....New York City
French
- TRUAX, RARAUD HAWLEY, A.M. 1911, A.B. Hamilton 1909.....New York City
Philosophy
- TSU, POW NION TEMPLAR, A.B. St. Johns China 1900.....Shanghai, China
History
- TUCKER, DONALD SKEELE.....Colorado Springs, Colo.
A.B. Colorado 1906, A.M. Williams 1912
Economics, Sociology
- TUCKER, IRWIN ST. JOHN.....New York City
Philosophy
- TUCKER, ROBERT LEONARD, A.B. Wesleyan 1913.....New York City
Sociology
- TUGGLE, CAROLYN, A.B. Trinity 1910.....Martinsville, Va.
English, French
- TURNBULL, ANNIE GRACE, A.B. 1908.....New York City
History
- TUTTLE, WILLIAM NATHANIEL, A.B. Grinnell 1912.....Grinnell, Iowa
Philosophy, Education
- TYLER, HAZEN GREELEY, M.E. Brooklyn Polytechnic 1913.....New York City
Physics
- TYSON, LEVERING, A.M. 1911, A.B. Gettysburg 1910.....Reading, Pa.
Economics
- ULRICH, FREDERICK, A.B. Washburn 1910.....New York City
Sociology
- UMACENY, LILLIE A., A.B. N. Y. Normal 1907.....New York City
Botany
- URBANE, PERCY LINWOOD, A.B. Princeton, A.M. 1907.....Lansdale, Pa.
Philosophy
- UZZELL, THOMAS HAYES, A.B. Minnesota 1909, A.M. Harvard 1910, Morgan Park, Ill.
English, Philosophy, Journalism
- VEEDER, LYMAN BRADT, A.M. 1912, A.B. Princeton 1910.....Peekskill, N. Y.
Economics
- DE VEHFE, MADELINE, A.B. Randolph-Macon 1912.....Ranceverte, W. Va.
History, Sociology
- VERNON, JOSEPH BOYCE, A.B. Wake Forest 1911.....Burlington, N. C.
Economics, History
- VERTREES, JOSEPH HODGEN, A.B. Missouri Valley 1913.....Marshall, Mo.
Sociology
- VIGNERON, MARCEL HENRI, B.S. 1912, A.M. 1913.....Limoges, France
Romance
- DE VILLALVILLA, MARIA DIAZ.....New York City
History
- VOIGHT, WALTER W., A.M. 1913, A.B. Miss. Male 1910.....New York City
Sociology
- VOLLENWEIDER, JOHN ALBERT, A.B. German Wallace 1911.....Yonkers, N. Y.
Sociology
- VON JANINSKI, EDWARD RICHARD, A.B. N. Y. Univ. 1909.....New York City
German, French
- VOYSE, MARY, A.B. 1913.....Yonkers, N. Y.
Latin, Education, History

- WADDINGTON, MARY, A.B. 1899.....New York City
Sociology, Philosophy
- WALKER, JENNIE ADA, A.B. Rockford 1902.....Rockford, Ill.
Chemistry
- WALSER, THEODORE DEMAREST, A.B. Union 1910.....Cohoes, N. Y.
Sociology
- WALTON, JOSEPH BARNARD, A.B. Penn. 1905.....New Rochelle, N. Y.
Social Economy, Sociology
- WANG, CHENG-FU, A.M. 1912, E.M. Pei-Yang 1910.....New York City
Metallurgy
- WANG, CHÜN HAO, A.B. Pie-Yang 1910.....New York City
Metallurgy, Chemistry
- WANG, YINCHANG TSENSHAN, M.A. 1912, B.S. Chicago 1910.....Shanghai, China
Geology
- WANGSHAI, CHINFU.....Pekin, China
Economics, Constitutional Law, Chinese
- WARD, GRACE FAULKNER, A.B. Smith 1900, A.M. Radcliffe 1905.....Lynn, Mass.
Economics, History
- WARD, MABEL HEALD, A.B. Smith 1911.....Mansfield, Ohio
Social Economy
- WARD, MABEL RAYMOND.....New York City
Arabic
- WARE, CLARA CROSBY, A.B. Bryn Mawr 1910.....Hingham, Mass.
Zoölogy
- WARE, EDITH ELLEN, A.M. 1908, A.B. Goucher 1905.....Baltimore, Md.
History
- WARWICK, VENI A., A.B. Adelphi 1911.....New York City
English
- WASHBURN, GEORGE ADRIAN, A.M. 1913, A.B. Ohio State 1907...Columbus, Ohio
History
- WASTENEYS, HARDOLPH.....New York City
Chemistry
- WATSON, AMEY EATON, A.B. Brown 1907, A.M. Penn. 1910.....New York City
Psychology, Education
- WATSON, FRANK DEKKER, B.S. Penn. 1905, Ph.D. 1911.....New York City
Psychology
- WECHSLER, PHILIP DANIEL, B.S. 1913.....New York City
English
- WEI, WEU PIN.....New York City
Constitutional Law
- WEINER, MEYER, B.S. C. C. N. Y. 1910.....New York City
Mathematics
- WEINLAND, HELEN MARIE, A.B. Otterbein 1911.....West Alexandria, Ohio
English, Education, Comparative Literature
- WEINSTEIN, ALEXANDER, A.B. 1913.....New York City
Zoölogy, Physiology, Chemistry
- WEISER, SAMUEL, B.S. C. C. N. Y. 1910, A.M. N. Y. Univ. 1912...New York City
German
- WEIST, OLIVER CLYDE, A.B. Ohio State 1910.....New York City
Social Economy
- WELLENKAMP, JOHN HENRY, A.B. 1913.....New York City
Greek, Latin
- WELLMAN, HENRY GEORGE, B.S. Harvard 1912.....New Knoxville, Ohio
History, Economics, Education

- WELLS, BETTINA BORRMANN.....New York City
Economics, History, Sociology
- WEND, MILTON GEORGE, B.S. Union 1913.....Castletown, N. Y.
Philosophy, History
- WESSA, IDA, A.B. Chicago 1904.....Buffalo, N. Y.
English
- WESTON, ARTHUR JAMES, A.B. Lehigh 1904, A.M. Yale 1905....East Orange, N. J.
English, Comparative Literature
- WHANG, PAONAN MIENSANG.....Kwang Tung, China
Social Economy, Sociology, Economics
- WHEELER, IRWIN, B.S. 1911, LL.B. 1913.....New Brunswick, N. J.
Constitutional Law
- WHITE, EDITH GRACE, A.M. 1913, A.B. Mt. Holyoke 1912.....Allston, Mass.
Zoölogy, Botany
- WHITE, FRED CARLTON, A.B. Alfred 1895, A.M. 1902.....New York City
History
- WHITE, MARTHA ROOT, A.B. Bryn Mawr 1903.....New York City
Mathematics
- WHITE, REBECCA BENEDICT, A.B. Sweet Briar 1910.....Walton, N. Y.
Economics, Sociology, Social Economy
- WHITE, SARAH PARKER, M.D. Woman's Medical 1911.....Watervliet, N. Y.
Philosophy, Zoölogy
- WHITE, STEPHEN SOLOMON.....Waco, Tex.
Psychology
- WHITELAW, WILLIAM MENZIES, A.B. Toronto 1910.....Toronto, Can.
History
- WHITNEY, FLOY FISKE, B.L. Syracuse 1901.....Malone, N. Y.
English, Comparative Literature
- WHITNEY, MARJORY, A.B. Hillsdale 1910.....Hillsdale, Mich.
English, Comparative Literature
- WIEST, EDWARD, B.A. George Washington 1913.....Savage, Minn.
Economics, Sociology
- WIGGINS, INEZ LOUISE, A.B. Smith 1901, A.M. Cornell 1907....Jersey City, N. J.
Comparative Literature
- WILKINSON, PAUL HARRIS.....New York City
Geology, Electrical Engineering
- WILLARD, RALPH CLAUDE, A.B. Oxford 1908, A.M. Cornell 1905...New York City
History
- WILLIAMS, JUDITH BLOW, A.M. 1913, A.B. Vassar 1912.....New York City
History, Economics
- WILLIAMS, MARY EMMA, Ph.B. Wesleyan 1899.....New York City
Latin
- WILMOT, HARRIET E., A.B. 1913.....New York City
History
- WILMOT, MABEL E., A.B. Cornell 1908.....New York City
History
- WILSON, MARGARET ISABEL, A.B. Indiana 1905, A.M. Ohio State 1910, Newark, N. J.
History, Latin
- WILSON, PEARL CLEVELAND, A.M. 1905, A.B. Vassar 1904.....New York City
Greek, Latin, Music
- WING, AMY EVERETT, A.B. Smith 1908.....New York City
History
- WIRTH, CHARLES ADOLPHUS, A.M. 1911, A.B. C. C. N. Y. 1908....New York City
Botany

- WITHERS, HELEN EDSON, A.B. Mt. Holyoke 1903, A.M. Penn. 1908.New York City
English
- WITHERS, MYRA, A.B. Nebraska 1913.New York City
Social Economy
- WOLF, MORRIS, A.B. 1912.Philadelphia, Pa.
History, Philosophy
- WOLFF, DOROTHY S., A.B. Bryn Mawr 1912.New York City
Sociology, Journalism
- WOOD, JOHN A., A.B. Indiana State 1897, A.M. 1902.New York City
Psychology
- WOOD, MARY MORTON, A.B. Chicago 1905, A.M. Radcliffe 1906.New York City
Comparative Literature, Romance, Philology
- WOODBURY, WALTER BLIGH, A.B. 1908, A.M. 1909.Oneida, N. Y.
Romance
- WOODRUFF, MABELLE, B.S. 1906.Passaic, N. J.
History
- WOODS, HARLIE DALTON, A.B. Southwestern 1913.New York City
English, History
- WOOLCOTT, ALEXANDER HUMPHREYS, Ph.B. Hamilton 1909.Phalanx, N. J.
History, English
- WU, CHAI KAO, A.B. Illinois 1910.Soo-Chow, China
Mathematics, Physics
- WRIGHT, SAMUEL ANTHONY, A.B. Illinois 1913.Rome, Ga.
Sociology
- WRIGHT, WINTHROP ROBINS, A.B. Michigan 1909, A.M. 1912.Benton Harbor, Mich.
Physics, Mathematics
- YANAGISAWA, TAJI, A.M. 1912.Tokio, Japan
Sociology
- YANG, KWEEN E., A.M. 1913, A.B. St. Johns China 1909.Shanghai, China
Economics, Sociology
- YASUI, SEKIJI, A.B. Waseda 1906.New York City
Public Law, History, Economics
- YOUNG, DONNELL BROOKS, B.S. Amherst 1911.North Hanover, Mass.
Zoölogy, Botany
- YOUNG, ELEANOR MAY, A.B. Wellesley 1910.Thomson, Ga.
English, Comparative Literature
- YOUNG, ESTHER VICTORIA, A.B. N. Y. Normal 1909.New York City
English
- YOUNG, WILLIAM HAROLD, A.B. McGill 1912.Toronto, Can.
History
- YOUNG, WILLIAM HARVEY, A.B. Grinnell 1912.Center Junction, Iowa
Sociology, Economics
- YOUNG, WILLIE RAMSAY, A.B. Smith 1909.Charlotte, N. C.
Social Economy
- ZEITLIN, ROSE, A.B. N. Y. Normal 1911.New York City
English
- ZENKER, OTHELIE, A.B. N. Y. Normal 1912.New York City
German
- ZOLOTKOFF, JULIA, A.M. Paris 1912.New York City
Romance, Comparative Literature

In addition to the 1107 candidates for the degree of Master of Arts or Doctor of Philosophy 350 are registered under the Faculty of Philosophy with Education as their subject of major interest and 39 are registered as unclassified graduates. The names of these candidates appear in the list of graduate students under Teachers College (see page 364).

SUMMARY

STUDENTS PRIMARILY REGISTERED UNDER THESE FACULTIES.....	1496
STUDENTS FROM OTHER FACULTIES OF THE UNIVERSITY CANDIDATES FOR THE DEGREE OF A.M., LL.M., OR PH.D.:	
From the School of Law.....	65
From the Schools of Mines, Engineering, and Chemistry.....	1
From the School of Medicine.....	3
Grand Total.....	1565

732 students matriculated under the Faculties of Political Science, Philosophy, or Pure Science attended the Summer Session of 1913, but did not register for the first semester of the academic year 1913-14. .

FACULTY OF FINE ARTS

SCHOOLS OF ARCHITECTURE AND MUSIC

President BUTLER

Faculty

Dean WOODBRIDGE

Professors ALEXANDER, COX, DOW, FARNSWORTH, FLETCHER, FRENCH, HALL (W. H.), HAMLIN, HARRIMAN, HIRTH, LORD (A. W.), MASON, ROBINSON, RÜBNER, SHERMAN (F. D.), SHOTWELL (*Secretary*), SMITH (E. R.), WARREN, WHEELER, YOUNG

ON INSTRUCTION: The Dean (*Chairman*), Professors LORD, HAMLIN, MASON, DOW, SHERMAN, WARREN, HARRIMAN

ON SCHOLARSHIPS: The Dean (*Chairman*), Professors SHERMAN and RÜBNER

ON ADMISSION: Professors LORD (*Chairman*), MASON

Delegate to the University Council, see page 4.

The Faculty of Fine Arts, established March 5, 1906, comprises the three separately organized Schools of Architecture, of Music, and of Design. Work in Architecture and in Music has long been carried on at the University, for about thirty years in the former subject and for about fifteen years in the latter. On the other hand, until 1906 there had been no attempt to make any systematic provision for the needs of university students who seek opportunities in the study of painting, sculpture, and decoration, and it is by the creation of a School of Design in co-operation with the National Academy of Design that the University hopes to afford such opportunities. The establishment of this new School, as yet tentative in its organization, has been made possible by an agreement between the Academy and the University dated January 12, 1906. By this agreement the Art Schools of the Academy became closely associated with the University. They remain, however, entirely under the direction of the Academy, which preserves the independence secured to it by its own separate corporate existence.

General
Statement

Neither the University nor the Academy has at present at its disposal adequate resources to develop a complete system of instruction in the School of Design. A beginning, however, as set forth below (p. 322), has been made.

For details as to the advantages which the city of New York offers

¹ Absent on leave 1913-14.

outside of the University and the Academy for the study of the fine arts and as to the public lectures, exhibitions, and recitals maintained by the University in addition to the regular academic program, the separately printed *Announcement of the Faculty of Fine Arts* should be consulted.

Admission Except by special action of the Committee on Admissions, regular students under eighteen are not admitted; non-matriculated students must be twenty-one. For regulations governing admission for the certificate of proficiency see page 173, and for the regulations for the course for the Bachelor's degree in Architecture, see page 324; for that of Bachelor in Music, see page 327.

Advanced Standing Students desiring to enter the schools of the Faculty of Fine Arts with credit for courses pursued in other institutions, must make application in writing to the Chairman of the Committee on Admissions in time to reach him one week before the entrance examinations. The general regulations as to documents to be submitted and as to the acceptance of certificates are the same as for the Schools of Mines, Engineering, and Chemistry (see page 247).

The Committee on Admissions may admit students of mature age who are not candidates for a degree or certificate to such courses as they may be qualified to pursue. The qualifications necessary for admission as a non-matriculated student are:

Non-matriculants In Architecture, in addition to three or more years of office-experience or its equivalent, a practical knowledge of architectural drawing of the five orders, and of shades and shadows, is required for the courses in Architectural Design, and mathematics through plane trigonometry for the Mathematical and Architectural Engineering branches. In general, the approval of instructors in courses chosen by the student must be obtained.

In Music, proficiency is determined by personal conference with some officer of the School.

In Design, students in the National Academy of Design and such other persons as have had adequate training and experience either in the history and theory or in the practice of the fine arts are admitted under this provision.

Non-matriculated students will be permitted to matriculate at any time upon fulfilling the stated entrance requirements, or they may be excused from these requirements by vote of the Faculty, if their work has shown marked excellence.

FEEs (p. 47)

FELLOWSHIPS AND SCHOLARSHIPS, (p. 435)

Examinations Regular examinations in each course are held at the end of each half-year. All other examinations, except examinations for admission to

advanced standing, are special examinations, for which the statutory fee of \$5 is charged (see page 47). For the dates of the various examinations see the academic calendar. Absence from any regular or delinquent examination for which a student is registered is regarded as a failure.

SCHOOL OF ARCHITECTURE

The School of Architecture of Columbia University is a professional school for men and women designed to train its graduates for the active practice of architecture. Founded in 1881, under the direction of Professor William R. Ware, as a department of the School of Mines (now the Faculty of Applied Science), it was in 1902 made an independent School, and in 1906 placed under the Faculty of Fine Arts. It receives three classes of students: (1) Candidates for the degree of Bachelor of Architecture, who must give evidence of having completed the equivalent of two years of non-architectural study in a recognized college or scientific school (see page 324); (2) candidates for the Professional Certificate of Proficiency, who must pass entrance examinations covering 12½ units (see page 177); and (3) non-matriculated students, admitted without examination upon giving evidence of having had at least three years of professional training in architects' offices, or its equivalent (see page 46). The curriculum is identical for the first two classes and is of indeterminate duration; in general it may be covered in four years. For non-matriculated students, there is no fixed curriculum. They select their own courses of study subject to qualification in the necessary prerequisites.

**General
Statement**

The School of Architecture occupies new quarters in Avery Hall which also houses the Avery Architectural Library. Three entire floors of the building have been assigned to the school.

**Building and
Equipment**

The Avery Architectural Library, the richest collection of works on architecture and the allied arts in the country, occupies the entire ground floor of the building. It is open to the public daily and is available at all times for purposes of study and illustration in the school.

In addition to this the school possesses in its own departmental library a large collection of photographs and books, a classified library of many thousands of prints and plates, and a large number of original drawings from various sources. The equipment of illustrative material furthermore comprises lantern slides of architectural subjects; and a fine collection of casts of architectural details, including a large number from ancient and modern Roman buildings, and valuable models of buildings and of structural details.

The laboratories of the Schools of Engineering offer unexcelled opportunities to advanced students in architectural engineering.

The Willard collection of architectural casts and models in the Metropolitan Museum of Art is open to students every day except Sunday and

one evening, Saturday, and is very useful for illustrating the historic styles. Students of the school are provided with sketching cards.

Admission (see also page 173)

Bachelor of Architecture Candidates for admission to this course must give evidence of having successfully completed the equivalent of two years of non-architectural studies in a recognized college or scientific school. Mathematical studies pursued in anticipation of those prescribed in the School of Architecture may be included in such collegiate preparation, and students are advised to carry these studies at least through analytical geometry. The required collegiate preparation must include the equivalent of the elementary French used for admission to Columbia College. Candidates must also show a practical knowledge of free-hand drawing. (See page 13 of the *Announcement of the Faculty of Fine Arts.*)

Combined Course Students who have completed in Columbia College the first two years of the course for the degree of B.A. or B.S., with a total of 72 points to their credit, may elect for their Junior and Senior years courses in the School of Architecture aggregating not less than 65 points, upon the completion of which they may graduate with the college degree of B.A. or B.S. Upon completing the remainder of the curriculum in the School of Architecture, which may be accomplished in two years more, they receive the degree of Bachelor of Architecture, having thus graduated in six years under both faculties and received both degrees. The advantage of this combined course is soundness of preparation and breadth of culture is very great, and it is earnestly commended to young men in preparatory schools who look forward to the study of Architecture.

COURSE FOR THE CERTIFICATE (see page 173)

Other Institutions Students of any incorporated School of Art in New York City and duly accredited students from the *ateliers* of the Society of Beaux-Arts Architects of this city may be admitted, upon payment of the prescribed fees, to the courses in the elements of architecture, Shades and Shadows, Perspective, Descriptive Geometry, Theory, the History of Architecture, and the History of Ornament.

Program of Studies A student receives his degree or certificate when he has completed the 142 points scheduled. Students of fair ability and thorough preparation should be able to complete the course in four years. (For the typical four-year course see page 64.)

History of Architecture, 4; History of Ornament, 6; Shades and Shadows,

4; Descriptive Geometry, 5; Perspective, 3; Stereotomy, 2; Drawing, 16; Elements of Architecture, 12; Elementary and Intermediate Design, 36; Advanced Design, 22; Theory of Architecture, 8; Decorative Arts, 2; Civic Design, 4; Mechanics, 3; Mathematics, 9;¹ Building Materials, 4; Structural Design, 4; Electives, 6; total points required, 150.

Elective courses may be chosen from the following list. Six points are required, but eight points may be taken by those qualified:

Ancient Architecture, 4; Medieval Architecture, 4; Modern Architecture, 4; Ancient, Medieval, Modern Research, 2 each;² Summer Work, 2 each summer; Elasticity and Resistance of Materials, 9; Masonry Structures, 5; Foundations, 4; Analytical Mechanics, 5; Heating and Ventilation, 3.

Candidates for the degrees of Master of Arts and Doctor of Philosophy, **The Higher Degrees** who wish to pursue in the School of Architecture the more advanced studies of the course which are accepted under the regulations prescribed by the University Council for these degrees, must be holders either of the degree of Bachelor of Architecture, Bachelor of Arts, or Bachelor of Science, or an equivalent degree, and must in addition give satisfactory evidence of qualification by previous training for admission to these courses. Those who choose Architecture as the subject of major interest must be holders of the degree of Bachelor of Architecture or its equivalent.

Attention is called to the pamphlet entitled *Faculties of Political Science, Philosophy and Pure Science* which may be had on application to the Secretary of the University, and particularly to the fact that the requirements for the higher degrees are based upon subjects and not upon courses. Students, before registration, should consult the officers of instruction concerned with regard to their selection of courses.

Under the authorization of the University Council, and in each case by special arrangement with the authorities of the school, candidates for the higher degrees may pursue a part of their studies abroad. Work in Design taken as a major subject may be carried on in foreign ateliers or schools, the work being sent to Columbia University for judgment by official juries of the School of Architecture. Original research abroad as set forth by essays and drawings, and approved courses in foreign Universities, may be accepted as minor subjects in partial satisfaction of the requirements for the higher degrees.

Graduates of this school and of other schools of architecture maintaining equivalent courses are admitted to the graduate courses in Design and Construction, whether candidates for the higher degrees or not.

Holders of the Certificate in Architecture are admitted to the graduate courses offered in the school. They may not, however, be candidates for the higher degrees.

¹ Students who have not offered Advanced Algebra will be required to add a 2-point course in this subject (Math. 1).

² Students may register for courses in Research only in connection with the corresponding courses in Architectural History.

The courses in Architecture open to candidates for the higher degrees are: Graduate Design; Advanced Construction; Ancient Architectural History and Research; Medieval Architectural History and Research; Modern Architectural History and Research; Graduate Research.

SCHOOL OF MUSIC

General Statement The Department of Music was established May 4, 1896, by means of The Robert Center Fund for Instruction in Music, an endowment presented to the University by Mrs. E. Mary Ludlow in memory of her son, the late Robert Center.

In 1906 the School of Music was established including both the department above mentioned and the department which had been developed independently in Teachers College.

The aim of the instruction is to teach music historically and aesthetically, as an element of liberal culture; to teach it scientifically and technically, with a view to training musicians who shall be competent to teach and to compose; and to provide practical training in orchestral music. The several courses have reference to the needs of the undergraduate, to those of the university student wishing to specialize in music, and to those of students who are candidates neither for a degree nor for a Certificate of Proficiency. Performances by the University Chorus and Orchestra are provided from time to time, for the members and friends of the University. There is, also, an annual concert of original compositions by students in the school. In addition, many public lectures, recitals, and concerts of various kinds are held. Courses in Music may be counted toward any of the following degrees: Bachelor of Music, under the Faculty of Fine Arts; Bachelor of Arts, and Bachelor of Science, under Columbia College or Barnard College; Master of Arts, under the Faculties of Fine Arts and Philosophy. In addition, a course leading to a Certificate of Proficiency in Music has been established.

Equipment A collection of music and of text-books is placed at the disposal of students in the school. It includes the complete works of Palestrina, Handel, Bach, Mozart, Beethoven, Schubert, Berlioz, Mendelssohn, Schumann, and Wagner, many orchestral and opera scores, the pianoforte classics, chamber music, and vocal music, besides theoretical works. The private library of the late Anton Seidl, consisting of 1220 scores, was presented to the University and has been placed in the rooms of the School of Music.

The school has a collection of orchestral instruments for the use of students taking part in the University Orchestra. The great organ in St. Paul's Chapel is employed both for chapel services and for organ recitals.

For the general regulations governing all students under the Faculty of Fine Arts see page 321.

The requirements for admission to the course leading to the degree of **Admission** Bachelor of Music are: (1) The completion of courses of study in Columbia College or Barnard College, amounting to a credit of 62 points (substantially, two years undergraduate study), or of their equivalent elsewhere; (2) the ability to play, on the pianoforte, the Two-Part Inventions of Bach or pieces of the same degree of difficulty on string or wind instruments or in the case of a singer, about the same degree of technical skill and the ability to play simple harmony exercises on the piano.

Candidates for the Certificate of Proficiency, (p. 173)

The requirements for admission to the courses leading to the degree of **Master of Arts** Master of Arts, are: the degree of Bachelor of Music, or the baccalaureate degree in Arts, Science, Letters, or Philosophy, together with musical proficiency equal to that required for the degree of Bachelor of Music in Columbia College.

The candidate for the degree of Bachelor of Music is expected to pursue **Program of Studies** courses of study aggregating, at least, seventy-five points,¹ as follows:

a. (Prescribed.) All courses in composition and criticism offered by the School of Music; a year's course in each of the following: language, literature, history, and the fine arts other than music.

b. (Elective.) Other courses offered in the University, for which the student has the necessary prerequisite, especially courses in Musical Performance, Aesthetics, Physics, or Psychology.

The candidate is further required to produce a satisfactory original composition for orchestra or with orchestral accompaniment, and to submit an essay on a musical subject.

The candidate for the Certificate of Proficiency in Music is expected to fulfil the same requirements as in the course leading to the degree of Bachelor of Music (see above), except that only fifty points¹ of credit are demanded for the certificate. The same requirement is made with regard to the original composition and the essay, as in the case of a candidate for the degree of Bachelor of Music.

The candidate for the degree of Master of Arts, with Music as the subject of major interest, is expected to pursue advanced studies in some other subject, in addition to Music. A minimum residence of one year is required. Each candidate will take the course of instruction known as Music 101-102, or other courses in connection with it. Particular stress, however, will be laid on advanced composition in Music, or on research in the field of Music, or on both. A candidate who offers Music as his principal subject of study will be required, also, to submit an original composition of large form for orchestra or with orchestral accompaniment, or a dissertation on a musical subject, embodying the results of research, or both.

¹ A point signifies the credit granted for each hour per week of attendance upon any course of study for one half-year.

REGISTER OF STUDENTS

School of Architecture

CANDIDATES FOR DEGREE

ALLEN, GEORGE MARCUS, B.S. Min. Eng. Univ. of Utah 1908.	Salt Lake City, Utah
BARNUM, PHELPS, A.B. Yale 1913.	Mamaroneck, N. Y.
BELKNAP, MAITLAND, Litt. B. Princeton 1913.	New York City
BITTERMAN, ALBERT COURTLAND, B.S. 1913.	Yonkers, N. Y.
BOYD, BYRON BENNETT, A.B. Univ. of Colo., A.M. 1913.	Denver, Colo.
BRAMWELL, WILLIAM MOFFAT, Ph.B. Yale 1912.	New York City
BRINKERHOFF, HAROLD TICE (Senior in Columbia College).	New York City
BUCHTENKIRCH, GEORGE CHARLES, B.S. 1913.	New York City
BURTON, ALLAN, B.S. Tex. A. and M. 1913.	Clarendon, Tex.
BUTLER, GEORGE PRENTISS, JR. (Junior in Columbia College).	Yonkers, N. Y.
COFFIN, LEWIS AUGUSTUS, JR., A.B. 1912.	New York City
COX, DOROTHY HANNAH.	Terre Haute, Ind.
DERRICK, ROBERT OVENS, A.B. Yale 1913.	Buffalo, N. Y.
DIXON, PAUL WILLIAM.	Sac City, Ia.
DUPONT, ALBERT ROBERT.	New York City
FINLAYSON, FRANK LATHROP, B.S. 1912.	New York City
FORSTER, WILLIAM W., A.B. 1913.	Yonkers, N. Y.
GENTRY, ALONZO HENLEY.	Independence, Mo.
GREENE, GILES POLLARD, A.B. Yale 1911.	Honesdale, Pa.
HALBERT, WILLIAM CARTER.	Vanceburg, Ky.
HAMLIN, TALBOT FAULKNER, A.B. Amherst 1910.	New York City
HARDISON, ROBERT MCKENZIE, B.E. in C.E. N. C. A. M. College 1912.	Morven, N. C.
HENRY, LEONARD STARR (Senior in Columbia College).	New York City
HILDEBRAND, ARTHUR STURGES, A.B. Yale 1910.	Hartford, Conn.
HODENPYL, GEORGE HENRY, JR.	Summit, N. J.
HOFFMAN, MURRAY, A.B. Harvard 1912.	New York City
HOLDEN, ARTHUR CORT, Litt.B. Princeton 1912.	New York City
HOLT, HENRY, JR., A.B. Harvard 1912.	New York City
HOPKINS, HENRY POWELL.	Annapolis, Md.
JESSEBRAND, LOUIS PETER, B.S. Tex. A. and M. 1913.	Groveton, Tex.
KILBORN, ROBERT CHARLES.	Yonkers, N. Y.
KONARSKI, MICHAEL MIECZYSLAW (Senior in Columbia College).	New York City
LEÓN, TOMÁS CARLOS.	New York City
MCDONNELL, JOE HUNTER.	Little Rock, Ark.
McFARLAND, ALLAN PARKER, A.B. Leland Stanford 1909.	Danville, Ill.
MAUSOLFF, ALFRED KENNAN.	White Plains, N. Y.
MORGAN, SHERLEY WARNER, A.B. Princeton 1913.	Cincinnati, O.
NOMLAND, KEMPER.	Buxton, N. D.
NORTON, KENNETH BERKLEY, B.S. 1912.	New York City
PELLEGRINI, P. UGO.	Rome, Italy
ROOT, GEORGE FREDERICK, 3d, Litt.B. Princeton 1911.	New York City
ROTH, SOLO (Senior in Columbia College).	New York City
SALOMONSKY, EDGAR ALLAN, B.S. Washington and Lee Univ. 1913.	Norfolk, Va.
SANDS, WALTER HAROLD (Junior in Columbia College).	Mt. Vernon, N. Y.
SCHULZ, PAUL, B.S. C. C. N. Y. 1913.	New York City

SMITH, FLOYD ROBINSON, JR., A.B. Yale 1912.....	New York City
THIESEN, JOHN HENRY.....	Pensacola, Fla.
WALSH, HAROLD VANDERVOORT.....	Yonkers, N. Y.
WATKINS, W. KENNETH (Senior in Columbia College).....	New York City
WEEKS, WILLIAM CORNELL, A.B. 1913.....	Huntington, N. Y.
WIKANDER, EINAR AXEL.....	Helsingfors, Finland
WILCOX, ROLLIN CRAWFORD, A.B. Princeton 1912.....	Bloomington, Ill.
WILSON, JAMES PERRY, A.B. 1913.....	Newark, N. J.
WOOD, ALEXANDER HEMSLEY (Junior in Columbia College).....	New York City
YANIKE, WALTER CHARLES.....	Bellwood, Nebr.
ZOLLER, HAROLD PINDAR, B.S. 1912.....	New York City

[56]

CANDIDATES FOR CERTIFICATE

ADLER, MORRIS BERNARD.....	New York City
AGNE, HARRY GEORGE.....	New York City
AGNEW, WILLIAM CHALMERS, JR.....	New York City
BAIL, FRANK WOOSTER.....	Cleveland, O.
BARTOS, ELMER EVERETTE.....	New York City
BATES, HERMAN MALCOLM.....	East Weymouth, Mass.
BERLENBACH, CHARLES FRANCIS.....	New York City
BOWDEN, REUBEN HENRY.....	Willimantic, Conn.
BROWN, BACHE HAMILTON.....	New York City
BROWN, EARL GORDON.....	New York City
BRUCKBAUER, GEORGE FREDERICK.....	New York City
BURKE, HERBERT JOHNSON.....	Roanoke, Va.
CLOUGH, ARTHUR NORMAN.....	New York City
COHEN, JACOB.....	New York City
COIT, RICHMOND TWEEDY.....	South Orange, N. J.
DAVIS, WILLIAM HENRY.....	New York City
DOBSON, DAVID STANTON.....	Canastota, N. Y.
EGAN, JOHN TAYLOR.....	New York City
FARQUHAR, GEORGE NORMAN.....	New York City
FARRELL, RAYMOND FRANCIS.....	Newton, N. J.
FERRIS, DAKIN BENNETT.....	Garden City, N. Y.
FREEHOF, MORTIMER EDGAR.....	New York City
FREUDENFELS, EMIL (Junior in Columbia College).....	New York City
GAMBA, MANUEL.....	Havana, Cuba
GARNJOST, WILLIAM TECUMSEH SHERMAN.....	Yonkers, N. Y.
GIROUX, LEON MAXWELL.....	New York City
GRABKOWITZ, EMANUEL.....	New York City
GRAEB, GERTRUDE HELEN.....	New York City
GREENBERG, JULIUS RUDOLPH.....	New York City
HAIRE, THOMAS C.....	Helena, Mont.
HALL, GEORGE BERRIAN.....	New York City
HAMILTON, MACAULAY.....	Rye, N. Y.
HARTLEY, ESDRAS CHARLES.....	New York City
HENDERSON, C. RANDELL.....	White Plains, N. Y.
HERNÁNDEZ, CARLOS FELIPE.....	New York City
HIRSCHFELD, LEONARD.....	New York City
HOLT, EVAN LE ROY MURRAY.....	Yonkers, N. Y.
HOUSTON, CHARLES FREDERICK.....	New York City
JOSEPH, LEONARD.....	New York City
KOHN, ALFRED ZOLTAN.....	New York City
LACY, PHILIP SAWYER.....	New York City
LAPIERRE, LESTER STORMS.....	New York City

LATENSEK, FRANK JOSEPH.....	Omaha, Nebr.
LESLIE, ROBERT.....	New York City
LINDSLEY, GIRARD.....	Orange, N. Y.
LOESCHER, EMIL.....	Harrison, N. Y.
LOMBARDI, ANTHONY.....	New York City
LUCK, COURTLANDT.....	New York City
MCCORMICK, PAUL JOSEPH.....	New York City
MILLER, GEORGE ELBERT.....	New York City
MONTANARO, FRANK BIAGGIO.....	New York City
PARK, EDWIN AVERY.....	New Haven, Conn.
PATERSON, STUART.....	New York City
PAUFVE, REYNOLD E.....	New York City
PODOLOFF, DAVID.....	New Haven, Conn.
PONSFORD, HENRY JORDAN.....	El Paso, Tex.
REED, WALTER JAY.....	Scarsdale, N. Y.
ROBIN, EDWIN JEROME.....	New York City
ROSENTHAL, ABRAHAM S.....	New York City
RUDD, JOHN SKEER.....	New York City
RUFFIER, GASTON.....	New York City
SCHENE, LOUIS HENRY HERMAN.....	New York City
SEELIG, IRVING.....	New York City
SMITH, STEPHEN ERNEST.....	White Plains, N. Y.
SPURGEON, ROBERT HENRY.....	New York City
STEAD, MANNING FORCE.....	Washington, D. C.
THULMAN, JOHN KELLEY.....	New York City
VAN NAME, CARL SNYDER.....	New York City
WADLTON, WILLARD STRATTON.....	White Plains, N. Y.
WAYCOTT, FREDERIC HUNTLEY, JR.....	Montreal, Can.
WETSTEIN, JACOB.....	New York City

[71]

NON-MATRICULATED STUDENTS

BECKETT, HAROLD CHAMP.....	Hamilton, Ont.
BERGEN, HAROLD PERRINE.....	Portland, Ore.
BOWES, ROSCOE E.....	Los Angeles, Cal.
BRACKETT, ROBERT GARRY.....	Rochester, N. Y.
CANNON, IRVING.....	New York City
CARLSON, DAVID WERNER.....	Minneapolis, Minn.
CHRISTIANSON, ELSA SIGRID.....	New York City
DE ROSA, EUGENE.....	New York City
GAUDER, CONRAD.....	Albany, N. Y.
GLUCROFT, JONAH.....	New York City
HICKS, RUFUS WILLIAMS, JR., B.E. N. C. A. and M. College 1910.....	Wilmington, N. C.
HINCKLEY, LOUIS CHAPIN.....	New Haven, Conn.
JAEGER, LOUIS CARL.....	New York City
LANGENHAN, HERMAN OSCAR.....	Cleveland, O.
LINDNER, ALBERT FREDERICK.....	Hartford, Conn.
MURAWSKY, ALFRED KARL.....	Cleveland, O.
OTTEN, GEORGE HERMAN, A.B. Univ. of Oregon 1911.....	New York City
RYER, JOHN BUSSING, JR.....	New York City
SCHOLER, WALTER.....	Portland, Ind.
SMITH, TREVANIA DALLAS (MRS.).....	New York City
SOHN, JOHN GEORGE CONRAD.....	Indianapolis, Ind.
SOPER, FREDERICK JOHN.....	Los Angeles, Cal.
SPISSMAN, FRED, JR.....	Cleveland, O.
STOETZEL, RALPH EDWARD.....	Chicago, Ill.

THAYER, EDGAR RANDOLPH.....	Yonkers, N. Y.
TILLION, CLEMENT VINCENT.....	New York City
[26]	

School of Music

CANDIDATES FOR HIGHER DEGREE

KILENYI, EDWARD, A.B. Gymnasium Hungary 1904.....	New York City
[1]	

CANDIDATES FOR DEGREE

HAUSER, JOHN ODELL, A.B. 1909.....	Bayside, N. Y.
[1]	

CANDIDATES FOR CERTIFICATE

RAISCH, WILLIAM LEROY.....	Ocean Grove, N. J.
TOOKER, MILDRED D.....	Larchmont, N. Y.
[2]	

NON-MATRICULATED STUDENTS

BAIL, FLORENCE BARNES.....	Cleveland, Ohio
BARNES, OWEN CORNELL.....	New York City
BASSETT, DOROTHY MAYHEW, A.B. Mt. Holyoke 1912.....	New Bedford, Mass.
BEDELL, ANNIE LOUISE.....	New York City
BINDER, ABRAHAM W.....	New York City
KALB, ABRAHAM I.....	New York City
KEVITZ, ROSE.....	New York City
KIRKPATRICK, KITTY H.....	Fort Mill, S. C.
KUH, ELEANOR PECK.....	New York City
SILVER, MEYER I.....	New York City
TARR, MAXWELL J.....	New York City
TURITZ, FLORENCE.....	New York City
[12]	

SUMMARY—FINE ARTS

Architecture

Candidates for degree.....	56
Candidates for certificate.....	71
Non-matriculated students.....	26
	<hr/>
Total Architecture.....	153
Deduct Columbia College students.....	9
	<hr/>
Net total Architecture.....	144
Music.....	16
	<hr/>
Grand total Fine Arts.....	160

SCHOOL OF JOURNALISM

Advisory Board	SAMUEL BOWLES.....	<i>Springfield Republican</i>
	NICHOLAS MURRAY BUTLER.....	<i>Columbia University</i>
	JOHN LANGDON HEATON.....	<i>New York World</i>
	GEORGE S. JOHNS.....	<i>St. Louis Post-Dispatch</i>
	VICTOR FREMONT LAWSON.....	<i>Chicago Daily News</i>
	ST. CLAIR MCKELWAY.....	<i>Brooklyn Eagle</i>
	CHARLES RANSOM MILLER.....	<i>New York Times</i>
	EDWARD PAGE MITCHELL.....	<i>The Sun, New York</i>
	RALPH PULITZER.....	<i>The World, New York</i>
	MELVILLE ELIJAH STONE.....	<i>Associated Press, New York</i>
	CHARLES H. TAYLOR.....	<i>Boston Globe</i>
	SAMUEL CALVIN WELLS.....	<i>Philadelphia Press</i>

ADMINISTRATIVE BOARD (see page 7)

Aims The aim of the School of Journalism is to assist and attract to the journalistic profession young men of character and ability, and to help those already engaged in the profession to acquire the highest moral and intellectual training. It will be the object of the School to make better journalists, who will make better newspapers, which will better serve the public.

Building The building for the use of the School of Journalism is on the southeast corner of Broadway and 116th Street, and the School began its session in the edifice at the opening of the academic year in September, 1913. The external dimensions are 208 feet 8 inches by 55 feet 10 inches, with a height of five stories and basement. The entrance is on the south front, consisting of three doors grouped under a portico of massive columns, and opening into a spacious vestibule, in which are placed medallions of distinguished Journalists, a memorial inscription to the late Joseph Pulitzer.

The first floor includes, in addition to the administrative offices and a large lecture hall, a typewriting-room specially fitted up for students taking professional courses; the library and newspaper reading-room are on the second floor; on the third, fourth, and fifth floors there are smaller lecture-rooms, class-rooms and studies, numbering about thirty in all, and affording a total seating capacity of about 2,200.

Admission Candidates for admission to the first year must be at least 17 years of age at entrance, and correspondingly older for advanced standing. A

certificate of good moral character must be presented, and, in the case of students from other colleges, of honorable dismissal.

For detailed statement of the requirements, both prescribed and elective, and a description of the ground covered by the examinations, see p. 173.

Candidates for admission to advanced standing, upon the basis of certificates of transfer from other colleges, should fill out the appropriate application blank, to be obtained from the Secretary of the University, and file it with the Committee on Undergraduate Admissions before September 1st.

**Advanced
Standing**

Non-matriculated students may be admitted to the School at the discretion of the Director, if they submit evidence of maturity, experience, or marked fitness, and may take either full or partial work. If they take the work prescribed for the degree of Bachelor of Literature for two years and maintain an average grade of B, they may be admitted to advanced standing in candidacy for the degree. Such students are expected to conform to the same standards of attendance and scholarship as are required of matriculated students. Applications should be made before September 1st to the Chairman of the Committee on Undergraduate Admissions on blanks to be obtained from the Secretary of the University.

**Non-ma-
triculants**

The ability of students to read a French or German newspaper will be tested on their entrance to professional studies at the beginning of the second year. All students, whether admitted on advanced standing or not, must satisfy this requirement before admission to the B.Lit. degree. In special cases, Spanish or Italian may be substituted with the consent of the Director.

**Language
Test**

REGISTRATION (see page 46)

FEES (see page 47)

SCHOLARSHIPS AND PRIZES (see page 435)

The Program of Study for the degree of Bachelor of Literature consists of 136 points, each point signifying the satisfactory completion of work requiring attendance one hour a week for one half-year. Lettered courses extend throughout both half-years. In numbered courses, odd numbers designate the first, even numbers the second half-year. A course designated thus: 1-2, 21-22, runs through two half-years, beginning in September.

**Program of
Study**

Candidates for the degree who wish to specialize in some branch of journalism or to continue particular subjects will be allowed to substitute courses of equivalent credit for any of those given below on submission to the Director of an approved program. In preparing such a program they will have the assistance and advice of the members of the staff of the School.

Subject to the foregoing regulations, the satisfactory completion of the following courses, together with the language test above mentioned, is required for the B.Lit. degree:

First Year	English jA (Freshman Composition).....	6 points
	French J or German J (Newspaper Reading Course).....	6 “
	Journalism 1-2 , History and Principles of Natural Science..	6 “
	History jA (General Survey).....	6 “
	Politics j1-2 (Introductory Course).....	6 “
	Philosophy J (Introductory Course), or a Language, or a Science.....	6 “
		<hr/> 36 points
		(18 hours a week)
Second Year	(In addition to the above, the work in physical education prescribed for College freshmen is required.)	
	Journalism A (a practice course in writing).....	6 points
	Economics 1-2 (Introductory Course).....	6 “
	Journalism 21-2 (Survey of English Literature).....	6 “
	†English 19-20 (Survey of American Literature).....	4 “
	History J1-J2 (Recent European History).....	4 “
	History J3-J4 (Recent American History).....	6 “
	History J5-J6 (Laboratory Course).....	4 “
		<hr/> 36 points
		(18 hours a week)
Third Year	Journalism B (continuation of Journalism A).....	6 points
	Journalism 31-2 , Newspaper Technic (newsgathering and preparation of copy).....	6 “
	*Journalism 131-2 , Modern European Literature.....	6 “
	Journalism 33 , Statistics.....	3 “
	Journalism 35-36 (Reporting).....	4 “
	*History 56 (The Industrial Revolution).....	3 “
	*Politics 55-6 (Party Government in the United States)..	4 “
		<hr/> 32 points
		(16 hours a week)
Fourth Year	Journalism 41-2 , Newspaper Technic (special reporting and interviewing).....	6 points
	Journalism 43-4 , Newspaper Technic (editing and re-writing).....	8 “
	*Journalism 141-2 , History of Journalism.....	6 “
	*Journalism 143-4 , Elements of Law (with special reference to the Law of Libel).....	4 “
	*Journalism 145-146 (International Relations).....	2 “
	*Economics 55-56 (Labor and Trust Problems).....	6 “
		<hr/> 32 points
		(16 hours a week)

* May be taken for graduate credit.

† Or a continuation course in language.

A.B. OR B.S. COMBINED WITH B.LIT. (see page 196)

Courses in stenography and typewriting are provided in Extension Teaching and students are advised to acquire both as soon as they can. All professional exercises must be submitted in typewritten form after the first year. A room and appliances are provided in the new building. Students are urged to familiarize themselves with typewriting at as early a stage as is possible in their preparatory work.

**Stenography
and Type-
writing**

The first two years of the curriculum are offered for duly qualified women students at Barnard College; the professional courses of the third and fourth years will be given in the School building and will be open to women on the same conditions as to men.

Women

REGISTER OF STUDENTS

SCHOOL OF JOURNALISM

FOURTH YEAR—CLASS OF 1914

BATCHELOR, OREN BRONSON.....	Goshen, Ind.
BLAND, RICHARD COE, A.B. Minnesota 1908.....	Waterloo, Ia.
BRACE, BLANCHE, A.B. Washington 1911.....	Seattle, Wash.
BROWN, THOMAS GILBERT, A.B. Trinity 1913.....	Norwich, Conn.
CARSON, WILLIAM GLASGOW BRUCE, A.B. Washington 1913.....	St. Louis, Mo.
CRAUS, MOXIE A, A.B. Baylor 1912.....	McKinney, Texas
DANENBERG, LEIGH, A.B. N. Y. Univ. 1913.....	New York City
EDWARDS, CLARENCE BLAND.....	Kingston, R. I.
ENGLANDER, JAMES, A.B. C. C. N. Y. 1913.....	New York City
GREENBERG, JACOB WALTER.....	New York City
JAQUITH, HAROLD CLARENCE, A.B. Trinity 1911.....	Hartford, Conn.
KENNEDY, DAVID SHELTON, A.B. Wake Forest 1912.....	Warsaw, N. C.
KILBON, ROLAND, A.B. Wesleyan 1913.....	Springfield, Mass.
KNIGHT, HAROLD ANDAS, A.B. Cornell 1913.....	Mt. Vernon, Ia.
KOLARS, MARY BARBARA, A.B. Minnesota 1913.....	Le Sueur, Minn.
KOON, JOHN IRBY, A.B. Newberry 1908.....	Prosperity, S. C.
LAHEY, WILLIAM STEWART, A.B. 1913.....	Jersey City, N. J.
LITTLE, WILLIAM DEE, A.B. Wake Forest 1908.....	Ada, Okla.
MCANNEY, BURNETT OLCOTT.....	Carlisle, Pa.
MCNAUGHTON, FOYE FISK, A.B. Tri State 1911.....	Ray, Ind.
MARKEL, LESTER.....	New York City
MORITZ, CAROLINE CLAUDIA.....	Montgomery, Ala.
NAGEL, HERMAN KARL, B.S. So. Dakota State 1910.....	New York City
OWEN, GRACE ARLINGTON, A.M. Ohio Wesleyan 1903.....	Upper Sandusky, O.
POCKMAN, THEODORE NIVER, A.B. Rutgers 1911.....	Alden, N. Y.
POWELL, EDWARD MERRIAM, A.B. Williams 1913.....	Grand Rapids, Mich.
RANKIN, JANET RUTH, A.B. Minnesota 1912.....	Minneapolis, Minn.
RANSON, THOMAS DAVIS, JR., A.B. Washington and Lee 1913.....	Staunton, Va.
SHEIP, STANLEY SOLOMON, A.B. Harvard 1909.....	Wyncote, Pa.
TOMLINSON, DOUGLAS, A.B. Texas Christian 1909.....	Hillsboro, Texas
VAIL, EUGENE LAURENCE, A.B. Oxford 1913.....	Paris, France
VAN DE WATER, FREDERIC FRANKLYN, JR.....	New York City
WATERS, WILLIAM OTIS, JR., A.B. Yale 1913.....	Chicago, Ill.
WILL, TILLIE MARION, A.B. Minnesota 1912.....	New York City

[34]

THIRD YEAR—CLASS OF 1915

CORNELL, JOHN FRANCIS.....	New York City
EARLS, WILLIAM FRANKLIN.....	Liberty, Mo.
EVERETT, ROBERTS.....	Smith Center, Kansas
FROMMER, SAMUEL ALEXANDER BENZION.....	New Haven, Conn.
GOODMAN, HENRY ISIDORE.....	New York City
GRIFFEN, RICHARD FIELD (Senior in Columbia College).....	New York City
HUNTINGTON, RICHARD T., A.B. Maine 1913.....	Augusta, Me.

HUTCHINS, LEROY WILLIAM.....	Royal Oak, Mich.
JOHNSON, FREDERICK GREEN, A.B. Cornell 1913.....	Wilkes-Barre, Pa.
LEVY, DAVID SAUL.....	Pittsburgh, Pa.
PAGE, ALLEN S., Ph.B. Yale 1908.....	Oakland, N. J.
SCHANG, FREDERICK CHRISTIAN, JR.....	New York City
VOORHIES, JAY (Senior in Columbia College).....	New York City
WHITMORE, RAYMOND EVERS, A.B. Franklin and Marshall 1912.....	Millersville, Pa.

[14]

SECOND YEAR—CLASS OF 1916

ACKER, JAMES GORDON.....	New York City
ADLER, STANLEY LEON.....	New York City
CLARK, TRACY EUGENE.....	Hughesville, Pa.
DIAMOND, EMANUEL.....	New York City
DOYLE, EDWARD RICE.....	Buffalo, N. Y.
GEFFEN, MAXWELL MYLES.....	New York City
GRUNBERG, ISADOR ALFRED.....	New York City
KITCHEN, VICTOR CONSTANT.....	East Orange, N. J.
KLEIN, ISRAEL.....	New York City
REESE, ROBERT ADDISON.....	Muncie, Ind.
TOLISCHUS, OTTO DAVID.....	Trenton, N. J.
WENDOVER, SANFORD HUTTON.....	Warwick, N. Y.

[12]

FIRST YEAR—CLASS OF 1917

The following students are taking the first year of the course in Journalism, but are subject to the educational control of the Faculty of Columbia College:

BATES, HERMAN MALCOLM.....	East Weymouth, Mass.
BLACK, THOMAS EARL.....	Greenfield, Ind.
DANAHY, JAMES WILLIAM.....	Buffalo, N. Y.
DIETZ, MILTON.....	New York City
EDMAN, IRWIN.....	New York City
ESKEY, CHESTER LEONARD.....	Wheeling, W. Va.
FRISBIE, DANIEL MANNING.....	Middleburg, N. Y.
GOLDBERG, BENJAMIN.....	New York City
HEYMAN, BENJAMIN.....	Danbury, Conn.
HUBBELL, REGINALD WORTH.....	Warrenton, Va.
KELLY, WILLIAM JOSEPH.....	Lexington, Ky.
LANDAU, MORTON SAMUEL.....	Pittsburgh, Pa.
MANN, LOUIS RICHMAN.....	Cobleskill, N. Y.
MARSHALL, JAMES.....	New York City
OPPENHEIMER, FRED SEYMOUR.....	New York City
PITTS, FREDRIC GARDNER.....	Warwick, N. Y.
ROBB, KENNETH EVERTS.....	New York City
ROBERTS, GEORGE BASSETT.....	Washington, D. C.
ROBINSON, GEORGE.....	New York City
ROTHMAN, ABRAHAM.....	Centerville Station, N. Y.
RUKEYSER, MERRYLE STANLEY.....	New York City
RYSKIND, MORRIS.....	New York City
SCULLY, FRANCIS JOSEPH.....	New York City
SEADLER, SILAS FRANK.....	New York City
SMITH, PALMER.....	Fairbury, Nebr.
SMITH, RALPH BEVIN.....	Poughkeepsie, N. Y.
SOKOLSKY, GEORGE EPHRAIM.....	New York City
SPIERO, GERALD B.....	New York City

STERN, DONALD MCGREGOR.....	New York City
TEMPLE, ALAN HARRISON.....	Collingswood, N. J.
VAN VOLKENBURGH, DANIEL ETHELBERT.....	Bethel, Conn.

[31]

NON-MATRICULATED STUDENTS

ARMSTRONG, RALPH FRAZIER.....	Kokomo, Ind.
BALDERSTON, JOHN FLOYD.....	New York City
CHAMBERLAIN, JOHN DUDLEY.....	Marietta, O.
DIBBLE, RALPH BRIGHAM.....	Springfield, Mass.
HOUGH, GEORGE ANTHONY, JR.....	New Bedford, Mass.
KAVANAGH, JOSEPH SHAW.....	New York City
KENNEDY, ARDIS MORRISON.....	Lansing, Mich.
KINDRED, JOHN JOSEPH.....	New York City
LEARY, WARREN DENIS.....	New York City
LEWIS, EDWIN NEWELL.....	New Britain, Conn.
LOVEJOY, CLARENCE EARLE.....	Pittsfield, Mass.
MEDBERY, HELEN DEARBORN, A.B. Radcliffe 1904.....	New York City
MEENAM, WILLIAM THOMAS.....	Amsterdam, N. Y.
O'HARA, GEORGE WILLIAM.....	Syracuse, N. Y.
TOVE, HARRY BROWNE.....	So. Norwalk, Conn.
WEBSTER, JAMES CUMMING.....	New Haven, Conn.
WEITZENKORN, LOUIS MOSES.....	Wilkes-Barre, Pa.
WICKERSHAM, LEON MASSEY.....	Wilmington, Del.
WILLIAMS, COLLEY EUGENE.....	Arlington, Ga.

[19]

SUMMARY

Fourth Year—Class of 1914.....	34
Third Year—Class of 1915.....	14
Second Year—Class of 1916.....	12
First Year—Class of 1917.....	31
Non-matriculated Students.....	19
<hr/>	
Total.....	110
Deduct Columbia College Students.....	2
<hr/>	
Net Total.....	108

BARNARD COLLEGE

President BUTLER

Faculty

Dean GILDERSLEEVE

Provost BREWSTER

Professors BALDWIN, BOTSFORD, ¹BRAUN, CHADDOCK, COLE, CRAMPTON, FARRAND, GERIG, GIDDINGS, HAZEN, HIRST, HUBBARD, JACOBY, JONES, ¹KASNER, KNAPP, LOISEAUX, LORD, ¹MCCREA, MALTBY, MONTAGUE, MOORE (H. L.), MUSSEY, MUZZEY, OGILVIE, OSBORN, PERRY, REIMER, RICHARDS, ROBINSON, SELIGMAN, SHOTWELL, THOMAS, TRENT, VAN HOOK, WEEKS (R.), WHEELER, Miss M. F. WEEKS

BARNARD MEMBERS OF THE UNIVERSITY COMMITTEE ON UNDERGRADUATE ADMISSIONS: Professors JONES (*Chairman*), COLE, BREWSTER, and Miss HUTTMANN **Committees**

COMMITTEE ON INSTRUCTION: The PROVOST (*Chairman*), Professors KNAPP, MONTAGUE, CRAMPTON, MUSSEY, RAYMOND WEEKS and OGILVIE, and the DEAN (*ex-officio*)

COMMITTEE ON SCHOLARSHIPS: The DEAN (*Chairman*), Professors HIRST, and Miss DEDERER, and the PROVOST (*ex-officio*)

COMMITTEE ON HONORS: Professors MALTBY (*Chairman*) and HAZEN, Dr. HOLLINGWORTH, and the DEAN and the PROVOST (*ex-officio*)

COMMITTEE ON STUDENT ORGANIZATIONS: The DEAN (*Chairman*), Miss WEEKS, Professors BRAUN and BALDWIN, Dr. HASKELL, and the PROVOST (*ex-officio*)

Delegates to the University Council, see p. 4

For other officers who may give instruction to students of Barnard College, consult the several departmental statements.

OFFICERS OF ADMINISTRATION (see page 5)

In 1883 the Trustees of Columbia College offered degrees to women who should be able to pass the necessary examinations, without, however, providing instruction for them. The resulting system, called The Collegiate Course for Women, proved unsatisfactory to both parties. Therefore, Barnard College was organized in 1898 to provide instruction for women which should be identical with or equivalent to that provided by Columbia for men. **General Statement**

For eleven years it duplicated for women as far as possible the curriculum of Columbia College, and also registered for graduate work under the

¹ Absent on leave second half-year.

University Faculties women who held the bachelor's degree from institutions of good standing. Its instructors were members of the University staff. Examinations for entrance, those given in course, and those for degrees, were conducted by Columbia University. During the first three undergraduate years separate instruction was given to women; in the senior year they were admitted to certain courses in the University. Graduate students attended many courses at the University under the Faculties of Philosophy, Political Science, and Pure Science, the laboratory work in science being done at Barnard College.

However, Barnard's numerical growth made inappropriate the informal arrangement for instruction which was the natural method at the outset, and it became necessary to recognize formally the status which had gradually come into existence. Accordingly, an agreement was entered into in January, 1900, by which Barnard was included in the University system. Barnard is now an independent college for women with a corporation and a faculty of its own vested with all the powers commonly belonging to such bodies. At the same time, it shares the library, the instruction, and the degrees of Columbia University.

A more exact idea of the relations between Barnard College and Columbia University and also of the relations between Barnard College and Teachers College is to be found in the current edition of the *Announcement of Barnard College*. This may be obtained without charge upon application to the Secretary of Barnard College.

Admission In addition to the requirements for admission, see page 173, the following has been adopted by Barnard College:

In September, 1915, and thereafter all candidates for admission to the A.B. and B.S. courses at Barnard College, except those who offer Elementary Greek, will be required to offer at least three (3) units in modern foreign languages. To meet this requirement a student may offer Elementary and Intermediate French, or Elementary and Intermediate German, or the elementary examinations in any two of the following modern languages: French, German, Italian, Spanish. For the change in the modern language requirement in college work see page 342.

Probation A candidate for admission who has not secured the prescribed $14\frac{1}{2}$ units may be admitted to the freshman class with conditions, if in the judgment of the Committee on Admissions she is qualified to undertake the work of the class. General deficiency in any prescribed subject will disqualify for admission. Except for reasons of weight, a student who has failed to complete a course in a good high school or preparatory school will not be admitted with conditions.

A student admitted conditionally or by credentials from another college

or from the State Education Department will be held under probation during the first half-year of residence. For a detailed statement regarding the conditions of probation, see the *Announcement of Barnard College*, which can be obtained without charge from the Secretary of Barnard College.

See the "Requirements for Admission to Advanced Standing in Columbia College," page 193. **Advanced Standing**

In addition, the credits granted in any subject to a student admitted with advanced standing may be withdrawn or diminished in amount, if, in pursuing such subject after admission to Barnard College, the student proves that the granting of the credits was wholly or in part unwarranted by her previous work.

No student may receive a degree who has resided less than two full half-years at Barnard College.

No applicant will be allowed to enter the senior class as a candidate for a degree after October 15 in any year.

Candidates for admission as special students must make application in writing at least one week before the first day of the entrance examinations in September or in January. Proper blanks for this purpose may be obtained from the Secretary. **Special Students**

Special students in Barnard College are of two classes: matriculated and non-matriculated.

Matriculated special students are women who wish, without taking a degree, to make a serious study of some subject or group of subjects. They must pass the regular examinations for admission to the freshman class and have full credit for fourteen and one-half ($14\frac{1}{2}$) units of the entrance requirements. (See page 173.) They may, therefore, in event of a change of plan be credited with such of their courses as may coincide with the courses leading to a degree.

Non-matriculated special students must be women of mature age who wish to pursue chiefly advanced courses of special study. They may be admitted at the discretion of the Committee on Admissions without passing formal entrance examinations; but must furnish proof that they have at some time pursued the studies included in the matriculation examinations and must satisfy the requirements of the department that they desire to enter. Candidates desiring to pursue merely elementary courses, as in languages, etc., will not be admitted as non-matriculated special students.

Ordinarily no work done by a non-matriculated special student may count toward a degree.

Information regarding the regulations governing the election of studies, amount of work, attendance, examinations, etc., of special students is

contained in the *Announcement of Barnard College*, which can be obtained without charge from the Secretary of Barnard College.

Matriculation, Registration, Fees Detailed information regarding matriculation, registration, and fees will be found in the current *Announcement of Barnard College*, which can be obtained without charge on application to the Secretary of Barnard College.

DORMITORY (see page 56)

Program of Studies Upon completion of a curriculum arranged on one of the plans to be described below, the student is recommended by the Faculty of Barnard College for the degree of Bachelor of Arts or Bachelor of Science.

Unless the equivalents are offered for admission, the following courses are prescribed:

Bachelor of Arts	English A and B.....	12 points
	French A and German A (see new requirements below)	12 "
	History A.....	6 "
	Latin A.....	6 "
	Mathematics A.....	6 "
	Philosophy A.....	6 "
	Physical Education A and B.....	4 "
	Economics A.....	6 "
	Chemistry 5-6 or Physics 1-2.....	6 "
	Botany, Chemistry, Geology, Physics, Psychology (Experimental), or Zoölogy: two half-year courses in addition to Physics 1-2 or Chemistry 5-6 or any course in science that may have been offered for admission.....	6 "
	Major subject.....	18 "
	Free electives to complete the total of.....	124 "

Modern Languages Students who enter Barnard College in 1913 or 1914 and who have offered at entrance at least three (3) units in modern languages (see p. 176), have the option of satisfying, in place of the old requirements above stated, the following new requirements:

No modern language course in college will be prescribed. Before being registered as seniors, all students, except those who have offered Greek at entrance or who have taken Greek 1-2 in college, must satisfy the departments of Romance Languages and Germanic Languages that they have a working knowledge of French and German. In special cases, with the consent of the Committee on Instruction, Spanish or Italian may be substituted for French.

As a rule, the departmental test will take the form of an oral exami-

nation in translation at sight. It may be taken at any time during the college course and must be taken before May 1 of the junior year.

A student who offers Greek at entrance or who takes Greek 1-2 in college will be obliged to stand the test in only one of the modern languages.

In 1915 and thereafter the foregoing requirements will be prescribed for all students in the A.B. and B.S. courses.

Unless the equivalents are offered for admission, the following courses are prescribed:

English A and B.....	12 points	Bachelor of Science
French A and German A (see new requirements under I, preceding page).....	12 "	
History A.....	6 "	
Mathematics A.....	6 "	
Philosophy A.....	6 "	
Physical Education A and B.....	4 "	
Grouped work in science amounting to at least.....	70 "	

which must include:

A major subject of at least 28 points in one of the following natural sciences: Astronomy, Botany, Chemistry, Geography, Geology, Mineralogy, Physics, Experimental Psychology, and Zoölogy, or in Mathematics; and

Two minors of at least 12 points each, one in a subject allied to the major and one in a diverse subject, both to be chosen from the foregoing list with the addition of Anthropology, which should, as a rule, be taken only in connection with Botany or Zoölogy as a major.

Free electives to complete the total of..... 124 "

This general course, which does not lead to a Barnard degree, is designed to furnish the collegiate foundation for professional work in other schools of the University. It comprises from 62 to 72 points of work. The courses prescribed depend upon whether the candidate intends to transfer to the School of Practical Arts, the School of Architecture, the School of Music, or the School of Journalism. Full particulars will be found in the announcements of Barnard College and the professional schools concerned.

Certain courses in the Schools of Architecture and Music and in Teachers College are open to regular students registered in Barnard College. Certain graduate courses in Columbia University under the Faculties of Political Science, Philosophy, Pure Science and Education, and other

Two Years' Course

University Courses

courses in the Union Theological Seminary and the New York School of Philanthropy are open to specially qualified Barnard seniors.

After two years of collegiate work in Barnard a student may transfer without examination to the Faculty of Fine Arts as a candidate for the degree of Bachelor of Architecture or Bachelor of Music, to Teachers College as a candidate for the degree of Bachelor of Science in Practical Arts, or to the School of Journalism as a candidate for the degree of Bachelor of Literature.

Detailed information in regard to these opportunities will be found in the announcements of Barnard College and the other schools concerned.

REGISTER OF STUDENTS

BARNARD COLLEGE

SENIORS—CLASS OF 1914

CANDIDATES FOR THE A.B. DEGREE

ADAMS, LOUISE ELIZABETH.....	New York City
ALLEN, MARGUERITE.....	New York City
*ANDREWS, SOPHIE TOWNSEND.....	New York City
BALDWIN, MABEL.....	Bayonne, N. J.
BATEMAN, GLADYS.....	New York City
*BAUM, MINNIE.....	New York City
BOEGEHOLD, WINIFRED DOROTHY.....	Mount Vernon, N. Y.
BREW, MARY F.....	New York City
*BRITTAIN, MARGARET.....	Yonkers, N. Y.
*BRITTAIN, VIRGINIA IRENE.....	Yonkers, N. Y.
BROOKS, ROSALIE WHITEHEAD.....	Harrison, N. Y.
BROWN, KATE GERTRUDE.....	New York City
BUNZL, LUCILLE CAROLINE.....	New York City
*BURGEVIN, CAROLINE LOUISE.....	Port Chester, N. Y.
*CARMAN, MARGARET ISABEL.....	New York City
CARROLL, JULIA ELISE.....	New York City
*CHERRY, ETHEL NEWTON.....	New York City
CLINCH, MARIE LOUISE.....	Mount Vernon, N. Y.
CLINGEN, ALICE VAN DORN.....	New York City
*COHN, CAROLINE.....	Orange, N. J.
CORYELL, NANCY GILLMORE.....	New York City
CURTICE, EUNICE MALLORY.....	Freeport, N. Y.
DALE, JANE ELIZABETH.....	New York City
DAVIS, SARAH CAROLINE.....	Oak Grove, Ala.
DE YOUNG, ESTELLE.....	New York City
*DWYER, HELEN.....	New York City
FERGUSON, JEANNETTE.....	New York City
FITCH, DOROTHY MORGAN.....	New York City
FOX, LOUISE.....	New York City
*GATES, FRANCES WILLARD.....	New York City
GREENWALD, GERTRUDE VICTORIA.....	Mount Vernon, N. Y.
*GROF, CHRISTINE.....	Ossining, N. Y.
GUERNSEY, RUTH ESTELLE.....	New York City
HARRIS, HANNAH.....	Coshocton, O.
HEINEMANN, BEATRICE DANZIG.....	New York City
HEROD, DOROTHY FRASER.....	New York City
*HOBY, MARION ALICE.....	Fort Edward, N. Y.
HOLZWASSER, FLORRIE.....	New York City
KEITH, WILMA.....	Memphis, Tenn.
*KELLEY, ANNIE ELIZABETH.....	New York City
KENNY, MARY ELIZABETH.....	New York City
LAWLER, MARY HELEN.....	New York City

*LOWNDES, EMILY.....	Mount Vernon, N. Y.
McCRODDEN, ELLA VANCE.....	New York City
*McLAUGHLIN, GRACE.....	New York City
McVICKAR, HELEN ISABEL.....	Mount Vernon, N. Y.
MACLEAN, DAISY AGNEW.....	New York City
MANSER, RUTH BALDOCK.....	Summit, N. J.
MARTIN, RUTH DRUMMOND.....	La Porte, Ind.
MASON, MABEL HELEN.....	New York City
MAYER, ELEANOR THERESA.....	New York City
*MILLS, FRANCES ALICE.....	Bristol, Conn.
MINER, SIDNEY LOUISE.....	New York City
NICOLA, LULU.....	Cedar Grove, N. J.
ORD, ALTA ASHMEAD.....	New York City
ORDWAY, SARAH FLEMING.....	Murfreesboro, Tenn.
PALMER, FLORENCE.....	New York City
PATTERSON, MABEL WALDIE.....	New York City
PECK, MARGARET.....	Pomfret Centre, Conn.
POORE, HARRIET WINSHIP.....	Georgetown, Mass.
RAFF, GERTRUDE.....	New York City
RHOADES, FLORENCE MARTHA.....	Omaha, Neb.
ROS, LUISA.....	New York City
ROSENTHAL, JULIETTE CLARA.....	New York City
ROTHENBERG, ANNA ELIZABETH.....	New York City
SCHORR, MARGUERITE LOUISE.....	New York City
SCHULMAN, JEANNETTE.....	New York City
SCHWARTZMAN, FANNY.....	New York City
SEIGLER, FLORENCE MILDRED.....	New York City
SELDNER, GLADYS EDITHA.....	Yonkers, N. Y.
SHACKLETON, CLARA EVERETT.....	New York City
SHANNON, ANGELA.....	New York City
SHERLINE, ANNA ESTHER.....	New York City
SHIPMAN, HELEN BRIGGS.....	Newton Center, Mass.
STEPHENS, GERTRUDE EMILY.....	New York City
*STIRN, EDITH EVA.....	New York City
STURGES, SARAH ELVINA DELANO.....	New York City
TALMAGE, RUTH WHITTIER.....	Oyster Bay, N. Y.
†THOMAS, EDITH MADDOCK.....	Savannah, Ga.
TRACE, IRENE PAULA.....	New York City
*TULLY, MARION.....	New York City
UNGER, JEANNETTE.....	New York City
VAN RAALTE, JEANNETTE.....	New York City
VORHAUS, AMY ROSE.....	New York City
WALKER, MARY ELIZABETH.....	Brownwood, Texas
WALTON, LILLIAN SUSIE.....	New York City
WELLS, OLIVE IO.....	Mount Vernon, N. Y.
WILLIAMS, EDITH GARDNER.....	New York City
WISE, ROSE MARIE.....	New York City

CANDIDATES FOR THE B.S. DEGREE

DUROR, CAROLINE ALLISON.....	New York City
MATHISON, ELIZABETH.....	New York City

† Died Nov. 17, 1913.

* Candidates for the Teachers College Diploma in Education.

MULHALL, EDITH FRANCES.....	New York City
OWENS, ELLA ADELAIDE.....	New York City
PETRI, LUCIE ANNA.....	New York City
Seniors—Class of 1914.....	94

JUNIORS—CLASS OF 1915

ADIKES, ANNA MAY.....	New York City
ASHBROOK, KATHRYN.....	Gridley, Kansas
ASTRUCK, EDNA FRANCES.....	New York City
BAILLY, ELIZABETH DONOVAN (Mrs. E. C. Bailly).....	New York City
BAIN, GERTRUDE BEACH.....	New York City
BANKER, GRACE DERBY.....	Passaic, N. J.
BARNET, CONSTANCE ISABEL.....	New York City
BAUHAN, LINNÉA HENRIETTA.....	Jersey City, N. J.
BECKER, ELSA GERTRUDE.....	New York City
BEKNAP, ALMIRA FREDERICKA.....	New York City
BERGER, EDITH.....	Bayonne, N. J.
BERGHAUS, ELSA LOUISE.....	New York City
BERNHEIM, SARA ANNA.....	New York City
BERNSTEIN, JUDITH SEMYRA.....	Portland, Ore.
BLEET, HELEN MARJORIE.....	New York City
BLOUNT, IDA MAY.....	Atlanta, Ga.
BOLGER, JULIA VIRGINIA.....	New York City
BRETT, ALICE MARIE-LOUISE.....	New York City
BROWN, ANNE GOODLOE.....	Vaughan, N. C.
BULOW, SOPHIE IDA.....	New York City
BUTLER SARAH SCHUYLER.....	New York City
CARR, MARGARET.....	New York City
CHESLEY, ELSIE DE VALOIS.....	New York City
CLARK, MILDRED SENIOR.....	Yonkers, N. Y.
COATES, MARY ISABEL.....	New York City
COFFIN, GRACE.....	New York City
COGAN, LUCY GRACE.....	Paterson, N. J.
CRANCH, ALICE RUTH.....	New York City
DAVIS, EDITH REBECCA.....	New York City
DEARDEN, EDWINA MARY.....	New York City
DOODY, MARIE FRANCES.....	New York City
DOWNES, HELEN RUPERT.....	Yonkers, N. Y.
EARLE, DOROTHY.....	Hastings-on-Hudson, N. Y.
ENGLE, SADIE.....	New York City
ENGLER, MARGUERITE LOUISE.....	New York City
ERSKINE, RHODA.....	New York City
EVANS, RUTH DORIS.....	New York City
FINK, BERTHA.....	White Plains, N. Y.
FLER, FRIEDA ANNA WILHELMINA.....	Mt. Vernon, N. Y.
FOX, KATHARINE NEAL.....	New York City
FRIEDMAN, HORTENSE.....	New York City
FRIES, CATHARINE CARRIE.....	New York City
FULLER, ANNIE.....	Jersey City, N. J.
GERATY, CONSTANCE MARY.....	Montclair, N. J.
GILLEAUDEAU, HELEN.....	Mamaroneck, N. Y.
GRAAE, RUTH.....	Perth Amboy, N. J.
GRAY, MARY.....	Brookline, Mass.
GREENBAUM, GRACE RACHEL.....	New York City
GROF, JESSIE.....	Ossining, N. Y.

HARDWICK, EDITH GERTRUDE.....	New York City
HARPER, JOAN.....	New York City
HARRER, HARRIET.....	New York City
HAWES, ESTHER WARE.....	New Rochelle, N. Y.
HENRY, EDNA MARY.....	New York City
HERZFELD, ALMA JOSEPHINE.....	New York City
HESS, EDNA.....	New York City
HOCHSCHILD, GERTRUDE.....	New York City
HOROWITZ, RUTH NANETTE.....	New York City
HOWE, LUCIE WILSON.....	Mount Vernon, N. Y.
HUBBARD, GRACE LOUISE.....	New York City
HUNLEY, ETHEL VIRGINIA.....	New York City
JACKSON, LILLIAN MARGUERITE.....	New York City
JACOBSEN, BEATRICE MATHILDE.....	Perth Amboy, N. J.
JAMISON, ALMA CHARLOTTE.....	New York City
JEFFREY, LAURA MACLEAN.....	New York City
JENKINS, HELEN HARTLEY.....	New York City
JONES, ALICE LOUISE.....	Los Angeles, Cal.
JORDAN, ANNA ELIZABETH.....	New York City
JOURNEAY, HELEN.....	Leonia, N. J.
KELLY, LOUISE FRANCES.....	Scranton, Pa.
KERBY, CATHARINE EDITH.....	New York City
KIRCHWEY, FRED.....	New York City
KONG, ANNA FOJIN.....	Canton, China
KRAUSE, ESTELLE.....	New York City
KRIER, DOROTHY AUGUSTA.....	New York City
KRINSKY, HENRIETTA JESSIE POLLAK.....	Yonkers, N. Y.
LACHMANN, HELEN ROSE.....	New York City
LAMBERT, EMILY GORDON.....	Mt. Vernon, N. Y.
LEVI, RAY ELLIOT.....	New York City
LEVINSON, ELSIE FREUDENHEIM.....	Yonkers, N. Y.
LEWINE, CHARLOTTE.....	New York City
LICHTENSTEIN, HELENA.....	New York City
LOURIA, ELEANORE GRACE.....	New York City
LULL, SARA ROWLAND.....	Yonkers, N. Y.
MCTIGHE, MARY BLANID.....	Binghampton, N. Y.
MACAULEY, ELIZABETH.....	New York City
MACDONALD, HELEN EDITH.....	New York City
MARKS, RUTH.....	Orange, N. J.
MARLEY, RUTH JACKSON.....	Newark, N. J.
MARTIN, LOIS WHITNEY.....	New York City
MAYER, CLARA.....	New York City
MEYER, MARGARET NATHAN.....	New York City
MILLER, EDA.....	New York City
MORGENTHAU, LUCY ROSE.....	New York City
MOSES, MILDRED.....	New York City
MOUNT, HELEN EMMA.....	Hoboken, N. J.
MURPHY, HELEN ANNETTE.....	New York City
NELSON, SVEA ANNA CHRISTINE.....	Dalton, Mass.
O'SULLIVAN, REGINA.....	New York City
OCHS, IPHIGENE.....	New York City
OERZEN, ELSIE MAY.....	New York City
OPPENHEIMER, LOUISE MARIAN.....	New York City
PADDOCK, ANNA MARGUERITE.....	New York City

PALMER, ELIZABETH.....	New York City
POLLITZER, MARGARET.....	New York City
PULLEYN, VIRGINIA.....	New York City
RANDOLPH, ISABEL FITZ.....	New York City
RANKIN, ETHEL LEE.....	Denver, Colo.
REID, MARGARET.....	Mount Vernon, N. Y.
REINHEIMER, CORINNE.....	New York City
ROOME, SARENA VALENTINE.....	Freehold, N. J.
ROSS, MARY GOLDSBOROUGH.....	Essex, N. Y.
SAYRE, EMMA BERTHOLF.....	Warwick, N. Y.
SCHECHTER, AMY ESTHER.....	New York City
SCHERRER, EDITH MYRTLE.....	Tarrytown, N. Y.
SCHMIDT, ELISABETH MARY NOTBURGER AGNES.....	West Hoboken, N. J.
SCHWARZWAELDER, FLORENCE.....	Ossining, N. Y.
SKINKER, DOROTHY ANNE.....	White Post, Va.
SONDHEIM, HATTIE.....	New York City
SOSKIN, LILLIAN.....	New York City
STANBROUGH, DOROTHY.....	New York City
STERN, EDNA LOUISE.....	New York City
STILES, EDITH.....	New York City
STOKES, VIOLA MATILDA.....	Freehold, N. J.
TERRIBERRY, MARGARET.....	New York City
TOTTEN, ISABEL.....	New York City
WALKER, LOUISE.....	New York City
WALLER, ALICE PAGE NELSON.....	Stafford, Va.
WASHBURN, NINA ELMIRA.....	New York City
WASSERMAN, ESTELLE PHYLLIS.....	New York City
WEBBER, ALICE JULIETTE.....	New York City
WELDON, BEULAH.....	New Rochelle, N. Y.
WELLS, CHARLOTTE ADELINE.....	Mount Vernon, N. Y.
WILLIAMS, KATHARINE.....	New York City
WYCKOFF, MARTHA.....	Glen Ridge, N. J.
ZAGAT, HELEN.....	New York City

CANDIDATES FOR THE B.S. DEGREE

ANSORGE FANNIE RICH.....	New York City
BEVIER, MARGUERITE.....	New York City
FROELICH, CLARA LILLIAN.....	New York City
GREENBURG, ISABEL.....	New York City
KUTTNER, ANN GAYLOR.....	New York City
MANN, MARY LEE.....	New York City
MEYER, IRMA DOROTHY.....	New York City
TOBIN ELISE.....	New York City
Juniors—Class of 1915.....	144

SOPHOMORES—CLASS OF 1916

CANDIDATES FOR THE A.B. DEGREE

ALBERT, ESTELLE.....	Mamaroneck, N. Y.
ALBRECHT, BERTHA MARIE.....	New York City
ALEXANDER, BETTY REBA.....	New York City
AMIDON, BEULAH ELIZABETH.....	Fargo, N. D.
APPELT, ROSALIE.....	New York City
APPLEY, DAISY MARIE.....	Yonkers, N. Y.
ASSERSON, RUTH.....	New York City
AUGUR, HELEN EDITH.....	Albert Lea, Minn.

BAILEY, ALICE MORTIMER.....	New York City
BARNES, GLADYS ORME.....	Rutherford, N. J.
BECK, FRANCES.....	New York City
BIANCHI, ITALA MARIA.....	Orange, N. J.
BLONDEL, DOROTHY MARGUERITE.....	New York City
BLUMENTHAL, HELEN B.....	New York City
BORDEN, MARION ALLEN.....	Grantwood, N. J.
BUONOCORE, BETTINA BEATRICE.....	Bridgeport, Conn.
CHANCELLOR, MARIE-LOUISE.....	Darien, Conn.
CLARIHUEW, MARGARET.....	Woodcliff-on-Hudson, N. J.
COHEN, RUTH.....	Watertown, N. Y.
CONKLIN, AGNES MARIA.....	New York City
CONOVER, ETHEL.....	White House Station, N. J.
DAVIES, JESSIE HUGHES.....	Edgewater, N. J.
DAVIS, MARGARET FORMAN.....	Oak Grove, Ala.
DEAN, DOROTHY.....	New York City
DEAN, ISABEL.....	New York City
DIVINE, MARTHA MILLICENT.....	New York City
EXSTEIN, LILLIAN RAY.....	New York City
FAJANS, CAROLINE RUTH.....	New York City
FARRELL, GRACE ELLEN.....	New York City
FARRELL, MARY DOROTHY.....	New York City
FERNSTROM, THORA MARIE.....	New York City
FEZANDIÉ, DORETTE.....	New York City
FISCHER, EDITH LINDEN.....	New York City
FRANKLIN, ALICE DARC.....	New York City
FRASER, DOROTHY ELECTA.....	Yonkers, N. Y.
GANELLA, AMALIA FRANCESCA.....	New York City
GROSSMAN, EDITH.....	New York City
GUBNER, PAULINE ANTONIA.....	New York City
HALL, DOROTHY.....	New York City
HALL, ELIZABETH BIGELOW.....	New York City
HARING, EVELYN LOUISE.....	Elizabeth, N. J.
HECHT, RITA.....	New York City
HEDLEY, PHYLLIS.....	New York City
HILLAS, MARJORIE.....	West Hoboken, N. J.
HOGAN, OLIVE REGINA.....	Rochester, N. Y.
HOWELL, FRANCES MARIE.....	Paterson, N. J.
HUBBARD, ELEANOR HEERMANCE.....	Sioux City, Ia.
HUGHES, MARY FRANCES.....	Bloomfield, N. J.
HULSKAMP, MARJORIE VIRGINIA.....	New York City
JACOBY, JEANNE H.....	New York City
JONAS, SENTA SARAH BRUNHILDE.....	New York City
KELLEY, EMMA CORNELIA.....	Randolph, Mass.
KELLNER, MARIE JEANNETTE.....	New York City
KELLY, MARIAN KATHERINE.....	Scranton, Pa.
KEMPTON, IVA TOMPKINS.....	Yonkers, N. Y.
KING, MARGARET CHRISTINA.....	New York City
KLOPPER, ELMA.....	New York City
KOHN, CECILIA.....	New York City
LANGDON, HELEN KATHERINE.....	Englewood Cliffs, N. J.
LONIGAN, MARY EDNA.....	New York City
LORENZ, CAROL RAMEY.....	New York City
LUBETKIN, MILLICENT.....	New York City

LUCEY, LOUISE.....	Ogdensburg, N. Y.
McKELVEY, RUTH.....	New York City
MAGID, FRANCES.....	New York City
MARX, OLGA JOSEPHINE.....	New York City
MIRSKY, MIRIAM ESTHER.....	New York City
MISCH, HELEN DORA.....	New York City
MURNANE, CATHERINE REGINA.....	New York City
MYERS, DOROTHY KENYON.....	New York City
NATHAN, ROSALIE GOMEZ.....	New York City
NATHANSON, MARY ETHEL.....	New York City
NORRIS, NANETTE.....	Vineyard Haven, Mass.
PARIS, EVA MAY.....	New York City
PEARSON, GLADYS IRWIN.....	New York City
PFEFFER, ANNA MARIE.....	New York City
PINE, MARY BECKMAN.....	New York City
POPPER, OTTILIE.....	New York City
POWELL, MARY LOUISE WHITNEY.....	New York City
RANDOLPH, MILDRED FITZ.....	Newark, N. J.
REES, FANNIE MINA.....	New York City
REGES, ETHEL.....	New York City
RICH, ELEANOR MARIA.....	Mount Vernon, N. Y.
RITTENBERG, BEATRICE HELEN.....	New York City
ROSENSTEIN, HELEN.....	New York City
ROSS, MARIE ESTELLE.....	New York City
ROWLAND, EDITH LLOYD.....	New York City
ST. JOHN, GRACE EVANS.....	New York City
SALOM, RUTH.....	Upper Montclair, N. J.
SCHUYLER, GERTRUDE.....	New York City
SEIPP, EMMA.....	New York City
SHRIVE, LILLIAN WORTH.....	Yonkers, N. Y.
SIMMONS, MARGARET PERKINS.....	Yonkers, N. Y.
SMITH, HELEN VAN ALST.....	New York City
STOBAUGH, CHARLOTTE WILHELMINE.....	Englewood, N. J.
STOFF, CAROLYN GERTRUDE.....	New York City
STORER, DOROTHEA.....	Glen Cove, N. Y.
TALBOT, LOUISE.....	Baltimore, Md.
TIELEKE, GERTRUDE EMMA HELEN.....	New York City
WALLACE, ELEANOR NEWTON.....	New York City
WALLACH, ESTHER.....	New York City
WASHBURN, RUTH FLEMING.....	Port Chester, N. Y.
WASSERMAN, ROSALIE.....	New York City
WEIL, MABEL.....	New York City
WEINSTEIN, SUSANNE.....	New York City
WEISS, CAROL THERESE.....	New York City
WELLS, MABEL.....	New York City
WILBER, RUBY BIRD.....	Sound Beach, Conn.
WOOD, NATALIE FRANCISCA.....	Englewood, N. J.
YOUNG, RUTH MARION.....	Saco, Me.

[110]

CANDIDATES FOR THE B.S. DEGREE

BARTHEL, ELSE ANNA SOPHIE.....	New York City
BREWER, RUTH ELLEN.....	New York City
DECKER, RUTH KATE.....	Stony Point, N. Y.

GOLDSTONE, EDITH HELEN.....	New York City
MONROE, LILLIAN MARIE.....	New York City
REASER, DOROTHY YVONNE.....	Yonkers, N. Y.
ROLF, IDA PAULINE.....	New York City

[7]

CANDIDATES FOR TRANSFER AT THE END OF TWO YEARS TO THE PROFESSIONAL
SCHOOLS OF THE UNIVERSITY

*DUNKIN, ROSALIND FRANCES.....	New York City
DUNPHY, GERTRUDE.....	New York City
*FELIX, PAULINE ALLEGRA.....	New York City
*FOX, ALICE CHARLOTTE.....	Winfield Junction, N. Y.
LINCOLN, LOUISE.....	East Cleveland, O.
*MCMURRAY, MADELEINE QUICK.....	Rockville Centre, N. Y.
*MITCHELL, HANNAH.....	Lawrence, Kans.
*ROBERTS, HENRIETTE WITTKÉ (Mrs. H. W. Roberts).....	Westfield, N. J.
SCHINDLER, GERTRUDE JOSEPHINE.....	New York City
*SMITH, MARY MCKINNON.....	New York City
TROWBRIDGE, KATHRYN PARKER.....	New York City
*WHITE, BETTY TRUMBULL.....	New York City

Sophomores—Class of 1916..... 129

[12]

FRESHMEN—CLASS OF 1917

CANDIDATES FOR THE A.B. DEGREE

AARONSON, GRACE GLADYS.....	New York City
ADAMS, RUTH CLARA.....	New York City
ADELSTEIN, GERTRUDE.....	New York City
ARKINS, CAROL.....	New York City
BANTA, CHARLOTTE ETHEL.....	New York City
BAUSCH, HELENE.....	New York City
BECKER, ELSA MARIA.....	New York City
BENHAM, RHODA WILLIAMS.....	Cedarhurst, N. Y.
BENJAMIN, RUTH LOUISE.....	New York City
BENNETT, SARAH ISABEL.....	Georgetown, Conn.
BERNHOLZ, PAULA.....	New York City
BLOCH, STELLA.....	New York City
BOND, ORRELL MARQUERITE.....	New York City
BONNELL, RUTH ADRIENNE.....	New York City
BRECKENRIDGE, MARJORIE.....	New York City
BREMER, PHEBE ELEANOR.....	Maplewood, N. J.
BRODSKY, LENA RICH.....	New York City
BUFFORD, HAZEL BLANCHE.....	New York City
BURGI, LUCIE EMILIE.....	New York City
BURNS, ALICE PATRICIA.....	New York City
BURROWS, BEATRICE.....	New York City
CALLAN, HELEN.....	New York City
COLLINS, HELEN BROWNE.....	Whitehall, N. Y.
COOK, MINNIE CECILIA.....	New York City
CURNEN, ANNETTE LOUISE.....	New York City
CURNOW, DOROTHEA ESTELLE.....	New York City
DAVIS, EVELYN MARIE.....	New York City
DEARDEN, GERTRUDE AGNES.....	New York City
DEUTSCH, ESTELLE BABETTE.....	New York City

* Candidates for the Teachers College Diploma in Education.

DIEHL, LEOLA	Cresskill, N. J.
DIERCKS, GRACE	Jersey City, N. J.
DILLAY, MADELINE	Jersey City, N. J.
DOWNING, MAUDE ELSIE	Yonkers, N. Y.
DUNN, OLIVE LORINNE	New Brunswick, N. J.
DUYN, EVELYN HALL VAN	New York City
DWYER, MARY AGNES	New York City
EDMONDSON, RUTH BATHURST	New York City
EGAN, ETHEL MARGARET MARY	New York City
ELLIS, ROSE	Watertown, N. Y.
FAITH, MARION ESTHER	New York City
FISHER, KATHLEEN ANNIE	New York City
FLORA, MARGARET LUCILLE	Bangor, Pa.
FOWLER, ANNA MAY	Brewster, N. Y.
FOX, JANET	New York City
FRIEDMAN, LILLIAN MURIEL	Huntington, N. Y.
FRIES, MARGARET EVELYN	New York City
GEER, CORNELIA THROOP	New York City
GILBERT, ELIZABETH	East Orange, N. J.
GIRDNER, ADELA OVERTON	New York City
GOLDSMITH, WINIFRED HOLLIS	New York City
GRAY, ETHEL	New York City
GRAY, ROSE RANF	New York City
GREER, HALLIE READ	Beaumont, Texas
GUNZENDORFER, LENORE	New York City
GUTHRIE, CLARA SYLVIA	New York City
HAHN, IRMA	New York City
HALL AMELIA AGNES	New York City
HALLETT, MARJORIE MITCHELL	East Orange, N. J.
HARDEN, MARY ELIZABETH BERNADETTE	New York City
HATCH, FLORENCE REEVES	New York City
HATTORFF, PAULINE	New York City
HAUSLE, EUGENIE CAROLINE	New York City
HAYDEN, MARION FESSENDEN	New York City
HECHT, SYLVIA SARA ROSALIND	New York City
HERMANN, ANNA CATHERINE CAROLINE	New York City
HEYMAN, JESSIE	Jersey City, N. J.
HEYMAN, MILDRED EDWINA	Newburgh, N. Y.
HICKOK, IRENE COLE	New York City
HIEBEL, THERESE	Newark, N. J.
HUIE, ALICE ORDANIA	New York City
HUNTINGTON, KATHARINE ELFLEDA	Mount Vernon, N. Y.
JENSEN, RUTH AMELIA	New York City
JOHNSON, BALBINA ANTOINETTE	New York City
JUDGE, BEATRICE MADBLEINE	New York City
KAHRS, HELEN JANET	New York City
KANNOFSKY, RUTH EDNA	New York City
KARR, LUCY ELIZABETH	Newark, N. J.
KATZ, YETTA	New York City
KETCHAM, HELEN BOWERS	Yonkers, N. Y.
KIDD, GLADYS HARPER	New York City
KLOSS, AGNES MERSEREAU	New York City
KOCH, MARIE KATHERINE	Middletown, N. Y.
KRAUSE, GERALDINE	New York City

LAWRENCE, ROSEMARY GERALDINE.....	New York City
LEE, MABEL.....	Canton, China
LEET, DOROTHY FLAGG.....	New York City
LEET, HELEN WINSOR.....	New York City
LEVY, THERESA JEANNETTE.....	New York City
LEWIN, SADIE.....	New York City
LICHTENSTEIN, JULIA VALENTINE.....	Hoboken, N. J.
LINDSAY, MARY.....	New York City
LIVINGSTON, GERTRUDE CHANNING.....	Barnstable, Mass.
LOTT, MARIETTA CREED.....	New York City
LOWNDES, BEATRICE.....	Mount Vernon, N. Y.
LUCKINGS, ALICE PETERS.....	New York City
MCENTEGART, CATHERINE JOSEPHINE.....	New York City
MACKEY, MARGUERITE.....	Hunter, N. Y.
MADDOW, DORIS.....	Passaic, N. J.
MARQUESS, ELIZA BUCKNER.....	New York City
MARTENS, CHARLOTTE.....	Shrub Oak, N. Y.
MERRITT, GRACE RICHARDSON.....	New York City
MEYER, IRMA HARRIET.....	New York City
MILLER, MARGARET.....	New York City
MILLER, STELLA MIRIAM.....	West New York, N. J.
MORITZ, MERCEDES IRENE.....	New York City
MORRIS, CORA HENNEN.....	New York City
MOSES, MARGARET MAR.....	New York City
MUNTER, ELLA.....	New York City
NAMMACK, ALMA FRANCIS.....	New York City
NEER, IMOGENE.....	Paterson, N. J.
NOICE, DOROTHEA.....	New York City
OAKLEY, ELSIE WKOFF.....	Mamaroneck, N. Y.
OPPENHEIMER, FLORENCE.....	New York City
ORIGGI, SARAH.....	New York City
PALMER, GLADYS LOUISE.....	Philadelphia, Pa.
PAPAZIAN, ELLEN DAWSON CASS.....	New York City
PARKER, ELEANOR WILSON.....	New York City
PENGEL, ELVA.....	New York City
PENNOCK, META RUTTER.....	Dunellen, N. J.
PETERS, JOAN ST. MICHAEL.....	New York City
PETERSON, RUTH EDITH KATHERINE.....	New York City
POLLITZER, ALINE.....	New York City
PORTER, LUCY DUBOIS.....	New York City
PRITCHART, ANNET MUNGER.....	Natchez, Miss.
QUACKENBOS, KATHARINE.....	New York City
RAU, HILDA LOUISE.....	New York City
REID, ADA CHREE.....	Boonton, N. J.
REQUA, CORA SHELTON.....	New York City
RHODES, FRANCES MAUD.....	Bergerville, Canada
ROGERS, SABINA AGNES.....	New York City
ROSENBAUM, JEAN PHYLLIS.....	New York City
RUBIN, JENNIE.....	New York City
RUHL, ALMA GLADYS.....	New Rochelle, N. Y.
SABELSON, AGNES MARGUERITE.....	Newark, N. J.
SACHS ELINOR.....	New York City
SALZMAN, EVELYN.....	New York City
SAUL, AGNES MOCKLER.....	White Plains, N. Y.
SCHULTE, AMANDA POGUE.....	New York City

SCHWARZKOPF, CLARA BERNHARD.....	New York City
SCOTT, HARRIET PITTENGER.....	Trenton, N. J.
SEADLER, MIRIAM BERTHA.....	New York City
SERMOLINO, MARIA CAMILLE.....	New York City
SNAGG, GLADYS KATHERINE.....	Port Chester, N. Y.
STAPLES, JANE GILBERT.....	Mount Vernon, N. Y.
STEINTHAL, JULIET ROSINA.....	New York City
STERN, DOROTHY.....	New York City
STEVENS, MARION MARJORIE.....	New York City
STICKLAND, GEORGINA IDA.....	New York City
STRANG, DOROTHY DEANE.....	New York City
STRATTON, ZALINDA OTY.....	Hillside, N. Y.
STRUSS, MARION.....	New York City
TABERINI, ELETTRA.....	New York City
TALMAGE, MARY VAN DEVENTER.....	Oyster Bay, N. Y.
TARSHIS, GRACE JESSIE.....	New York City
TAYLOR, LUCILLE ESTHER.....	New York City
TEALL, DOROTHY JUDD.....	Glen Ridge, N. J.
TREEPE, VIOLA IRENE.....	Jersey City, N. J.
TERRY, MURIEL KATHLEEN.....	New York City
THOMPSON, EDNA.....	New York City
THOMPSON, HATTIE JANE.....	New York City
TIFFANY, RUTH GILDERSLEEVE.....	Nyack, N. Y.
TUTTLE, MAY RYERSON.....	New York City
VAN AUKEN, ALTA LOUISE.....	Elizabeth, N. J.
VAN WAGNER, EDITH HARRIETT.....	Grantwood, N. J.
WATKINS, ELSIE MARIE VIVIAN.....	Buffalo, N. Y.
WERNSTEDT, EBBA MARY ALICE.....	New York City
WEZEL, EDITH.....	New York City
WHEELER, RUTH.....	New York City
WILKENS, ELEANOR AGNES.....	New York City
WILLIAMS, OLIVE ETHELYN.....	Englewood, N. J.
WILLIAMS, STELLA KATHERINE.....	Union City, Tenn.
WILSON, LILLIAN.....	New York City
WISHNIEFF, HARRIET VIVIAN.....	Cullen, Va.
WOBBER, FRIDA KATHARINE.....	New York City
WOITITZ, ELSA NETTIE.....	New York City

[175]

CANDIDATES FOR THE B.S. DEGREE

BARNETT, MADELEINE ELFELT.....	New York City
COHEN, SELMA MABEL.....	Yonkers, N. Y.
DAVENPORT, MILLIA CROTTY.....	Cold Spring Harbor, N. Y.
FRENZEL, ANITA.....	Nyack, N. Y.
JABLONOWER, ANNA.....	New York City
KENT, HELEN FRANCES.....	New York City
KIRWAN, HELEN MURRAY.....	New York City
KLAUSNER, IDA.....	New York City
KRASNOW, FRANCES.....	New York City
LA FOUNTAIN, MARION AUGUSTA.....	Hackensack, N. J.
LENNON, MARGARET ELIZABETH.....	Yonkers, N. Y.
LEVY, THERESA.....	New York City
LEWIS, ESTHER.....	New York City
PRITCHARD EDNA WATTS.....	New York City
ROUTH, MARTHA LORETTA.....	New York City

SCHAEFFER, LILLIAN AUGUSTA.....	New York City
SCHLANG, LILY.....	New York City
SIEGEL, FANNY ANNICH.....	Yonkers, N. Y.
SIEGEL, FRANCES.....	New York City
SIFF, MYRIAM.....	New York City
STROMSOE, SOLVEIG.....	New York City
SURGEONER, AGNES MASON.....	Yonkers, N. Y.
WALTHER, HELEN ELIZABETH.....	Mount Vernon, N. Y.
WEINSTEIN, FLORENCE.....	New York City
WHYTE, MARION TULEY.....	Tarrytown, N. Y.
WILLIAMS, ISABELLE CONKLING.....	New York City
WISCHHUSEN, MATHILDE.....	New York City
YOUNGS, HELEN CATHERINE.....	New York City

[28]

CANDIDATES FOR TRANSFER AT THE END OF TWO YEARS TO THE PROFESSIONAL
SCHOOLS OF THE UNIVERSITY

*ALEXANDER, HELEN DUNCAN.....	Philadelphia, Pa.
ARNOT, JENNIE KATHERINE.....	Spring Valley, N. Y.
ARNOT, MARY GLADYS.....	Spring Valley, N. Y.
BLOOM, HELEN ROSE.....	New York City
FISHBEIN, DORA.....	New York City
*GRETSCH, LAURA MARCELLA.....	New York City
*GROSHENS, MADELEINE.....	Roslyn, Pa.
HOLBROOK, HELEN.....	New York City
KONOVITZ, LEAH MINNIE.....	New York City
KUPFER, JESSIE.....	New York City
LEVY, RIETTE.....	Savannah, Ga.
*LINGO, ZORA.....	Salem, O.
*MOORE, GRACE ELIZABETH.....	New Rochelle, N. Y.
*MOREHOUSE, ELINORE ADELAIDE.....	Springfield, Mass.
*MYERS, MILDRED AUDREY.....	New York City
*NICHOLS, DOROTHY BEATRICE.....	New York City
*PERLMAN, PHYLLIS.....	New York City
POLLACK, SARAH.....	Pomona, N. Y.
POTTER, GRACE.....	Bronxville, N. Y.
ROBB, CHRISTINE CRUICKSHANKS.....	Tuckahoe, N. Y.
ROSS, GERTRUDE.....	New York City
*SOLOMON, ETHEL.....	New York City
*STANDER, MATHILDA.....	New York City
*SUMMERLIN, OLIVE.....	Lakeland, Fla.

[14]

Freshmen—Class of 1917..... 227

SPECIAL STUDENTS, MATRICULATED

BERNHEIM, ALICE REHNSTEIN (Mrs. George B. Bernheim).....	New York City
BRAINERD, BEATRICE BERNICE.....	Mount Vernon, N. Y.
BROOKS, ELIZABETH.....	Colorado Springs, Colo.
CARPENTER, MARGARET SEYMOUR.....	New York City
COHEN, HELEN NESSA.....	New York City
DE FLON, MARIE.....	Eureka, Nev.
FOSDICK, WINIFRED FINLAY (Mrs. Raymond B. Fosdick).....	New York City
HARRIS, FLORENCE.....	Montclair, N. J.

* Candidates for the Teachers College Diploma in Education.

HENDRICKS, ROWENA.....	New York City
HOWE, RUTH BOUTON.....	New York City
HUISKAMP, MARY MCGORRICK (Mrs. J. E. Huiskamp).....	New York City
LEVY, EDITH LILLIAN.....	New York City
LOKKER, MARY CHRISTINE.....	Holland, Mich.
MABON, ROSE VEDDER.....	New York City
MEYER, ETHEL SOPHIE.....	New York City
MOEHLE, JEAN EARL.....	New York City
MORGAN, EDITH PERCY.....	New York City
RATHGEN, CORNELIE KATHARINA LUISE.....	Hamburg, Germany
RIBBLE, MARGARETHA ANTOINETTE.....	Wytheville, Va.
STEBBINS, VERNETTE MAYDOLE.....	Norwich, N. Y.
*THOMPSON, CHRISTINA OVIATT.....	Litchfield, Conn.
TICE, SABRA COLBY (Mrs. Walter A. Tice).....	New York City
Matriculated special students.....	22

[22]

SPECIAL STUDENTS, NON-MATRICULATED

BARNARD, VIVIA GREY.....	New York City
BOUSFIELD, CHARLOTTE.....	Bay City, Mich.
BOWLER, JANE TAYLOR.....	Cincinnati, O.
CAREY, CORNELIA LEE.....	West Orange, N. J.
CATTELL, PSYCHE.....	Garrison, N. Y.
*DAVIS, MARGARET.....	Norfolk, Va.
DEGENER, IRMA.....	New York City
DODD, HELEN NORTHALL.....	New York City
DOLAN, ROSALIE BROWN.....	Hicksville, N. Y.
GUDEBROD, MATTIE CARLISLE (Mrs. M. C. Gudebrod).....	New York City
HUNT, HELEN LEIGH.....	New York City
MACKENZIE, JEAN.....	Dobbs Ferry, N. Y.
*MANDER, MARY JANE.....	Ponsonby, New Zealand
MAYER, MATHILDE LOUISE.....	New York City
*MILLAR, LAURA.....	Upper Montclair, N. J.
MORRISON, GRACE LOUISE.....	New York City
MULLIN, DOROTHY TRUITT.....	New York City
*NORTON, ESTHER KING.....	New York City
SELIGMAN, RENÉE CLAIRE.....	New York City
SHEPARD, EDNA.....	New York City
SILVERMAN, LOUISE BLOCK.....	New York City
STAATS, FREDERICKA BREMER.....	New York City
STAATS, MARION.....	Goshen, N. Y.
STEIN, MABEL BONNER (Mrs. Alexis Stein).....	New York City
TUTHILL, ISABEL HAWKINS.....	Rocky Point, N. Y.
UPTON, LUCY.....	Orange, N. J.
VOGT, THORDIS.....	Aalesund, Norway
WARREN, CATHERINE CARTER (Mrs. Howard C. Warren).....	Princeton, N. J.
WHITECOTTON, JEANNIE BREWINGTON.....	Hannibal, Mo.
WILSON, MARY FLORENCE.....	New York City
WINTHROP, MURIEL.....	New York City

[31]

Non-matriculated special students..... 31

* Candidate for transfer to the School of Journalism.

SUMMARY

Seniors—Class of 1914:	
Candidate for the Barnard College A.B. degree alone.....	71
Candidates for Barnard College A.B. degree and Teachers	
College diploma in education.....	18
Candidates for the Barnard College B.S. degree alone.....	5
	<hr/>
	94
Juniors—Class of 1915:	
Candidates for the A.B. degree.....	136
Candidates for the B.S. degree.....	8
	<hr/>
	144
Sophomores—Class of 1916:	
Candidates for the A.B. degree.....	110
Candidates for the B. S. degree.....	7
Students in General Two-Year Course.....	12
	<hr/>
	129
Freshmen—Class of 1917:	
Candidates for the A.B. degree.....	175
Candidates for the B.S. degree.....	28
Students in General Two-Year Course.....	24
	<hr/>
	227
	<hr/>
	594
Special Students:	
Matriculated.....	22
Non-matriculated.....	31
	<hr/>
	53
University Students.....	37
Teachers College Students.....	120
	<hr/>
	157
	<hr/>
Grand Total.....	804

TEACHERS COLLEGE

President BUTLER

**Faculty of
Education**

Dean RUSSELL

Professors BAGSTER-COLLINS, BAKER, BIGELOW, BONSER, CATTELL, COHN, COOLEY, DEWEY, DODGE, DOW, DUTTON, FARNSWORTH,¹ FARRINGTON, GOODSSELL, HILL, HILLEGAS, JOHNSON, KILPATRICK, KINNE, LODGE, MCFARLANE, ²McMURRY, MACVANNEL, MONROE, ¹NORSWORTHY, PEARSON, PRETTYMAN, RUGER, SACHS, SMITH (D. E.), STEVENS, ²STRAYER, ¹SUZZALLO, THORNDIKE (E. L.), UPTON (*Secretary*), WOOD, WOODBRIDGE, WOODHULL

President BUTLER

**Faculty of
Practical
Arts**

Dean RUSSELL

Professors ABBOTT, ANDREWS, BEMENT, BIGELOW, BONSER, COOLEY, CORNELL, DOW, FALES, FARNSWORTH, GOODRICH, GIES, KINNE, LATHAM, LUCKE, MCFARLANE, NOYES, ²NUTTING, ROSE, SHERMAN, SLEFFEL, UPTON (*Secretary*), VAN ARSDALE, VULTÉ, WARNER, WEICK, WOOD

Teachers College, founded in 1888, and chartered by the regents of the University of the State of New York in 1889, became, in 1898, a part of the educational system of Columbia University. The President of Columbia University is President, *ex-officio*, of Teachers College and the College is represented in the University Council by its Dean and representatives elected from its Faculty. The College meanwhile maintains its separate corporate organization, and its Board of Trustees continues to assume entire financial responsibility for its maintenance. In 1912 the Trustees reorganized the faculty of Teachers College, establishing a Faculty of Education and a Faculty of Practical Arts. By this reorganization Teachers College now consists of two Schools, the School of Education and the School of Practical Arts.

**General
Statements**

The buildings of Teachers College occupy the block directly north of the University Campus, bounded by 120th and 121st Streets, Amsterdam Avenue, and Broadway.

The Main Building, containing equipment for administration and instruction, the Bryson Library—the educational library of the Uni-

¹ Absent on leave first half-year.

² Absent on leave second half-year.

versity—and the Educational Museum, is adjoined by the Milbank Memorial Building, housing a number of academic and technical departments and containing the Memorial Chapel; by the Macy Manual Arts Building, with its exceptional equipment for work in Fine Arts and Industrial Arts; and by the Household Arts Building. The Frederick Ferris Thompson Memorial Building for the department of Physical Education connects the Milbank Building on the west with the building of the Horace Mann School. On the east of it is Whittier Hall, the residence for the women students of the College. The building of the Speyer School is a short distance north of the College, on Lawrence Street, near Amsterdam Avenue.

**School of
Education**

The School of Education affords opportunity for the advanced study of educational psychology and sociology, the history and philosophy of education, educational administration, and the various aspects of secondary, technical, elementary, and kindergarten education. It also provides professional training, both theoretical and practical, for teachers of both sexes for secondary, grammar, and primary schools, and kindergartens; for special teachers of such technical subjects as household arts, industrial arts, fine arts, music, and physical education; and the preparation of advanced students for work as principals, supervisors, and superintendents of schools; as heads of academic or educational departments in normal and teachers' training schools, and of educational departments in colleges and universities. The School of Education is thus a professional school of Columbia University for the study of education and the training of teachers, taking academic rank with the Schools of Law, Medicine, Mines, Engineering, and Chemistry.

The following curricula are offered by the School of Education:

1. A Two years' professional curriculum, leading to the degree of Bachelor of Science in Education and the Bachelor's Diploma in teaching, requiring for entrance the previous completion, at Columbia University or elsewhere, of two years of academic or technical training in advance of the usual requirements for college entrance. The work of the curriculum presents certain fundamental courses in educational psychology and the history and principles of education, a major subject of professional and academic work, in any department of the College, and a proportion of elective courses chosen at will.

**New Re-
quirements**

After July 1, 1914, the two-year professional curricula leading to the degree of Bachelor of Science and the Bachelor's Diploma will no longer be offered for candidates specializing in secondary academic subjects such as biology, English, French, geography, German, history, Latin, mathematics, physics and chemistry; after that date students specializing in

these subjects will be accepted only as candidates for the degree of Master of Arts or Doctor of Philosophy and the corresponding diploma.

2. Graduate curricula for advanced students leading to the Master's and Doctor's diplomas in teaching and to the degrees of Master of Arts and Doctor of Philosophy with a major subject in education. Such curricula provide work in educational psychology, the history and the philosophy of education, educational sociology, educational administration, secondary education, elementary education, and in research in the methods of teaching the various academic and technical subjects, supplemented by courses in other parts of the University. Courses in education may also be counted as minor subjects toward the advanced degrees, by students primarily registered in some other part of the University.

The professional curriculum is so arranged that undergraduate students of Columbia College and of Barnard College, and students who are prepared to enter the junior class of either of these colleges, may, if they desire, obtain the diploma of Teachers College at the time of receiving their degree of Bachelor of Arts. (See statement above concerning the requirements that will be in force after July 1, 1914, for specialization in a secondary academic subject.)

Teachers who wish to supplement previous professional training are entered into these curricula with advanced standing, or into courses grouped especially for their needs.

The Horace Mann School and the Speyer School, maintained by Teachers College as schools of observation and experiment, include kindergarten, elementary, and secondary classes and neighborhood work, and offer exceptional advantages for the study of the practical work of teaching and for the investigation of educational problems. These schools have now an attendance of some thirteen hundred pupils.

The school of Practical Arts was established to provide in the University system a new type of collegiate education, uniting liberal with technical training.

**School of
Practical
Arts**

The School offers to both men and women who have completed a secondary school course, a program of study four years in length, equivalent in standards of admission and graduation to the traditional college course in letters and science. It includes in its program general cultural subjects, by which any particular curriculum may be enriched and extended, and offers, therewith, a broad and generous technical training, based on adequate instruction in science or the arts by which the student may receive a high type of vocational preparation in the varied fields falling within the scope of the School—in industrial arts, household arts, dietetics, institutional work, public health, fine arts, the art industries, music, and physi-

cal training. In coöperation with the School of Education of Teachers College, it prepares students as teachers in these fields.

The School of Practical Arts is organized as a School of full University grade, parallel to the Colleges of the University, it enjoys all the privileges of University membership, and its graduates receive the credentials of the University.

Admission Students holding a diploma of graduation from an approved high or secondary school are admitted to the School of Practical Arts on certificate from the principal, provided the high-school course has covered four years' work and has included certain fundamental courses in English, history or foreign languages, and mathematics or science.* Application for admission should be made as far in advance of the desired time of entrance as is practicable, and must include statements from responsible persons that the candidate possesses the qualities of health, character, scholarship, and serious purpose required for successful work in the School of Practical Arts. The application should be made on a blank form which will be sent on request. Candidates, similarly vouched for, may also be admitted on examination of the College Entrance Examination Board or the Committee on Undergraduate Admissions of Columbia University, or on credentials from the Department of Education of the State of New York.

The School reserves the right to restrict the admission to the freshman year to the number of one hundred and fifty, and to select these according to merit.

Advanced standing may be granted to students who have completed, in a college, technical school, normal school or training school, courses in advance of high-school graduation. An application for admission to advanced standing should be made on a blank form which will be sent on request. For further information in reference to the requirements for admission see p. 173.

Program The courses of study leading to the bachelor's degree occupy four years of work (124 points), for which the usual secondary school education is a required preparation. During the four years of study, approximately one-third of the student's time must be spent in general academic subjects (45 points), approximately one-third in technical subjects and technical training (45 points); the remainder (except for four required points in hygiene and physical training) of the 124 points needed for the degree must be distributed, according to the needs of the student, in either the general or the technical field. The program of study thus requires of all students a certain amount of fundamental general training in academic studies, but allows a freedom of election beyond the minimum require-

* All candidates for admission are required to offer $14\frac{1}{2}$ units, to include: English, 3 units; mathematics or science, 2 units; foreign languages or history, 2 units; electives, $7\frac{1}{2}$ units

ments; it offers freedom of election in the choice of a group of studies of major interest, but requires systematic and progressive study in the group elected.

The successful completion of the four years' course of study is recognized by the conferring of the degree of Bachelor of Science in Practical Arts by Columbia University. **Degree and Certificates**

Matriculated students who may be admitted to pursue a more limited vocational training of at least two years may receive a Technical Certificate from the School.

Students preparing to teach may transfer not later than the beginning of the departmental fourth year of study to the School of Education and receive from Columbia University, on the completion of their course, the degree of Bachelor of Science in Education.

Graduate students in the field of practical arts are received into the various departments of Teachers College as candidates for the degree of Master of Arts or Doctor of Philosophy.

Scholarships, Prizes, and Honors, p. 435

REGISTER OF STUDENTS

Teachers College

School of Education

Graduate Students

Candidates for the Doctor's Degree and Diploma

The following students are also registered under the Faculty of Philosophy and are pursuing a major course in Education in Teachers College. Minor courses not in Education are given in italics below:

- ADAMS, MATTHEW PRIOR, A.M. 1913, B.S. Harvard 1904, *Social Economy*
.....New York City
- BALLOU, WILLARD ALGER, B.S. 1913, *Mathematics*.....Brooklyn, N. Y.
- BAWDEN, WILLIAM THOMAS, B.S. 1910, A.B. Denison 1896, *Social Economy*
.....Champaign, Ill.
- BELCHER, ARTHUR WILLIAM, A.M. 1910, A.B. Harvard 1904, *Mathematics*
.....Newark, N. J.
- BOEHMKE, MATTHIAS, A.M. 1913, A.B. Victoria (S. Africa) 1900, *Social Economy*.....Berlin, Cape Province, S. Africa
- BOND, SYRUS ORESTES, A.M. 1913, A.B. West Virginia 1909, *Social Economy*.....Lost Creek, W. Va.
- BREITWIESER, THOMAS JOHN, A.B. Indiana 1912, A.M. 1913, *Psychology*
.....Windfall, Ind.
- BROOKS, EUGENE CLYDE, A.B. Trinity 1894, *History, Economics*.....Durham, N. C.
- CAPPS, JOHN EDWARD, A.M. 1913, A.B. William and Mary 1911, *Princess Anne, Va.*
- CASTLE, ALFRED WATKINS, B.S. Ohio State 1910, A.M. 1911, *Social Economy, Economics*.....Orwell, Ohio
- CAZIN, ADELE, B.S., A.M. 1908, *Psychology*.....Upper Montclair, N. J.
- CHAPMAN, IRA T., A.B. Ohio Wesleyan 1903, A.B. Harvard 1904, A.M. 1905.....Norwalk, Conn.
- CHAPMAN, JAMES CROSBY, B.S. London 1909, D.S. 1913.....London, Eng.
- CHIANG, MONLIN, A.M. 1913, B.L. California 1912, *Public Law*.....Shanghai, China
- CHIEN, HU TING, A.M. 1911, A.B. Harvard 1910, *History, Economics*, Chekiang, China
- CLARKE, HOWARD ERNEST, A.B. Toronto 1909, A.M. 1911.....Bernardsville, N. J.
- COBB, WINFIELD V., A.M. 1913, A.B. Chicago 1909.....New York City
- COMIN, ROBERT, A.B. Princeton 1897, *Psychology*.....Richmond Hill, N. Y.
- CUTHBERT, HERMAN GIRVIN, A.B. Pennsylvania 1902, A.M. Chicago 1911, *Psychology*.....Newark, N. J.
- DAVENPORT, F. ISABEL, B.S. 1905, A.M. 1912.....New York City
- DAVIDSON, PERCY ERWIN, A.B. Leland Stanford 1898, A.M. Harvard 1905.....Stanford University, Cal.
- DOTY, AARON I., A.B. De Pauw 1890, A.M. 1893.....New York City
- DUSHKIN, ALEXANDER MORDECAI, A.M. 1913, A.B. C. C. N. Y. 1911, *Sociology*.....New York City
- FERGER, HENRI RABB, B.S. Princeton 1910.....Chattanooga, Tenn.
- FICHANDLER, ALEXANDER, A.B. N. Y. U. 1905.....Brooklyn, N. Y.
- FRANKLIN, EZRA THOMAS, B.Pd. Valparaiso 1905, A.B. Indiana 1906, A.M. 1910, *Philosophy, History*.....Wilmore, Ky.

- GARVER, FRANCIS MARION, A.M. 1912, A.B. Indiana 1906, *Psychology*, Leonia, N. J.
 GOLDSMITH, EVELYN M., B.S. 1910, A.M. 1911, *Social Economy*, Binghamton, N. Y.
 GRAVES, ISABEL, Ph.B. Wesleyan 1891, A.M. Western Reserve 1897,
 Ph.D. Pennsylvania 1899, *English*.....Newton, Mass.
 HART, HOWARD FARMAN, A.B. Brown 1904, A.M. 1905.....Montclair, N. J.
 HILL, JOSEPH HENRY, A.B. Northwestern 1886, A.M. 1889.....Topeka, Kans.
 HOLLINGWORTH, LETA STETTER (MRS.), A.M. 1913, A.B. Nebraska 1906,
 Sociology.....New York City
 HOLMES, HILARY HERBERT, B.S. 1910, A.M. 1913, *Public Law*.....Tensaw, Ala.
 HORN, ERNEST, B.S. Missouri 1907, A.M. 1908, *Psychology*.....Princeton, Mo.
 HOVEY, HORACE MASON, A.B. Brown 1900, A.M. 1901, *Mathematics*, New York City
 HUNKINS, CARL JOSEPH, A.B. Brown 1908, A.M. 1908.....Hackensack, N. J.
 HUNT, CHARLES WESLEY, A.M. 1910, A.B. Brown 1904.....New York City
 JANSEN, WILLIAM, B.S. 1908, A.M. 1913.....New York City
 JUDD, ZEBULON, Ph.B. North Carolina 1903.....Raleigh, N. C.
 KELLY, FREDERICK JAMES, A.B. Nebraska 1902, *Social Economy*.....New York City
 KUO, PINGWEN, A.M. 1912, B.S. Wooster 1911, *Sociology*.....Shanghai, China
 LENTZ, FLORENCE, Ph.B. Ohio 1901, A.M. 1913, *History*.....Marysville, Ohio
 McDONALD, ROBERT ALEXANDER FYFE, A.B. Toronto 1904, A.M. 1908,
 Sociology.....Waterford, Ontario, Can.
 McLANE, FANNIE MOULTON, A.B. 1907, A.M. 1908, *English*.....New York City
 MARGOSHES, SAMUEL, A.M. 1910, *Sociology*.....New York City
 MATIENZO, CARLOTA, B.S. 1911, A.M. 1913, *History, Romance Philology*
 Ponce, Puerto Rico
 MEAD, ARTHUR RAYMOND, A.M. 1910, A.B. Miami 1909, *Psychology*, New York City
 MEADOWS, LEON RENFROE, Ph.B. Baylor 1908, A.B. Yale 1909, A.M.
 1912, *English*.....Haynesville, La.
 MILLER, ALVIN J., A.M. 1912, A.B. Goshen 1911, *Psychology*.....Grantsville, Ind.
 MILLER, ELEANORA T., A.B. Nebraska 1900, A.M. 1902, *Religious Education*
 Lincoln, Neb.
 NICHOLS, CLAUDE ANDREW, A.B. Southwestern 1898, Ph.D. Havana
 (Cuba) 1905, *Anthropology*.....Georgetown, Texas
 NORMAN, JAMES WILLIAM, A.B. Mercer 1906, A.M. Harvard 1912,
 Psychology.....Hartwell, Ga.
 PICKERING, HOWARD VINCENT, A.B. Toronto 1910, A.M. 1911, *Eco-*
 nomics, Social Economy.....Winona, Ontario, Can.
 RACE, HENRIETTA V., A.M. 1911, *Sociology*.....Winfield, Kans.
 RUSSELL, WILLIAM FLETCHER, A.B. Cornell 1910.....New York City
 SEALOCK, WILLIAM ELMER, A.B. Ohio 1905, *History*.....Circleville, Ohio
 SMITH, WAYNE P., A.B. Wooster 1891, A.M. 1892, Ph.D. 1893, A.B.
 Harvard 1893, *Philosophy*.....New York City
 SWEET, MARGARET, A.B. Vassar 1887, Ph.D. Bryn Mawr 1893.....Stephentown, N. Y.
 TODD, THOMAS MARTIN, A.M. 1912, A.B. Western Maryland 1909, East Orange, N. J.
 TRUEMAN, GEORGE JOHNSTONE, A.B. Mt. Allison 1902, A.M. 1904
 Stanstead, Quebec, Can.
 TWISS, GEORGE RANSOM, B.S. Ohio State 1885, *Psychology*.....Columbus, Ohio
 VAN WAGENEN, MARVIN JAMES, B.S. 1911, A.M. 1912.....Ohioville, N. Y.
 WELLES, JAMES BELLE, A.M. 1913, A.B. Union 1909, *Social Economy*
 Schenectady, N. Y.
 WHEAT, FRANK M., A.M. 1910, B.S. Kentucky 1911, *Biological Chemistry*
 Brooklyn, N. Y.
 WOOD, EDGAR, A.B. Cornell 1895, A.M. Mt. Allison 1899.....Honolulu, T. H.

Candidates for Master's Degree and Diploma

The following students are also registered under the Faculty of Philosophy and are pursuing a major course in Education in Teachers College. The minor courses not in Education are given in italics below:

ALFKE, ETHEL V., B.S. 1912, <i>Philosophy</i>	New York City
ALLEN, RUSSEL HALL, A.B. De Pauw 1906.....	New York City
ALPERIN, DANIEL MAXWELL, A.B. C. C. N. Y. 1911.....	New York City
AMERMAN, BESSIE, A.B. Smith 1906.....	Bloomfield, N. J.
ANDREWS, LULA OCILLEE, B.S. 1913, <i>English</i>	Lafayette, Ala.
ARMENTROUT, WINFIELD DOCKERY, A.B. Missouri Valley 1910.....	Marshall, Mo.
BABCOCK, CLARA ELIZABETH, B.S. 1913, <i>Psychology</i>	Westerly, R. I.
BAKER, BLANCHE ELIZABETH, Ph.B. Denison 1902, <i>English</i>	Johnstown, Ohio
BAKER, GEORGE MARSHALL, A.B. University of Minnesota 1913.....	Hopkins, Minn.
BARBER, GRACE ELIZABETH, A.B. Mt. Holyoke 1906, <i>Mathematics</i>	Athol, Mass.
BARR, LOIS E., B.S. 1908, <i>History</i>	Holdrege, Nebr.
BARTLETT, MYRTH EMMA, A.B. Pomona 1909, <i>English</i>	Los Angeles, Cal.
BARTLETT, WILLARD W., B.S. Colgate 1910.....	New York City
BAXTER, JESSE HOYT, B.S. 1910, <i>Social Economy</i>	Murfreesboro, Tenn.
BEAL, FANNIE ESTHER, B.S. Michigan 1908, <i>Chemistry</i>	Addison, Mich.
BEALE, HILDA, A.B. George Washington 1911, <i>Mathematics</i>	Hyattsville, Md.
BEAM, LURA ELLA, A.B. 1908.....	New York City
BENITEZ, FRANCISCO, B.S. 1910.....	Manila, P. I.
BERKSON, ISAAC BAER, A.B. C. C. N. Y. 1912.....	New York City
BIDSTRUP, GERDA, B.S. 1913, <i>History</i>	Brooklyn, N. Y.
BIRNBAUM, BENJAMIN H., B.S. C. C. N. Y. 1912, <i>Sociology</i>	New York City
BLEND, ARVA ERASTUS, B.S. 1907.....	Glen Ridge, N. J.
BLITZ, ANNE DUDLEY, A.B. University of Minnesota 1904, <i>Sociology</i> , Boise, Idaho	
BOSHART, EDWARD W., B.S. 1911.....	Mt. Vernon, N. Y.
BOYNTON, MARY LOUISE, A.B. Vassar 1913, <i>History</i>	Flatbush, N. Y.
BRAINARD, ALBION HALE, A.B. Colby 1888, A.M. 1891.....	Arlington, N. J.
BRATTON, ETHEL, B.S. 1906.....	Bennington, Vt.
BRICKNER, BARNETT, B.S. 1913, <i>Economics, Sociology</i>	New York City
BRONSKY, AMY, Ph.B. University of Wisconsin 1905, <i>English</i>	New York City
BROOKE, MARY MYRTLE, A.B. Nashville, 1894, <i>Sociology</i>	Canton, Ga.
BROWN, ALEXANDER, B.S. 1913, M.D. Flower Hospital 1909.....	New York City
BROWN, ANNA WEST, B.S. 1913.....	Carlton, N. Y.
BROWN, LILLIAN OLIVE, A.B. Dickinson 1908, <i>Mathematics</i>	Summit Station, Pa.
BRYAN, DANIEL BUNYAN, A.B. North Carolina 1911.....	Apex, N. C.
BULLOCK, WILLIAM WALLACE, Ph.B. Colgate 1899.....	Hastings-on-Hudson, N. Y.
BURNHAM, REUBEN WESLEY, A.B. Amherst 1895.....	Brooklyn, N. Y.
BUTZ, CARRIE, A.B. Dickinson 1909, <i>Mathematics</i>	Schuykill Haven, Pa.
CASHMAN, FANNIE CATHERINE, A.B. Trinity (D. C.) 1913.....	Newburyport, Mass.
CATE, WILLIAM ERVIN, A.B. Harvard 1895.....	Long Branch, N. J.
CHASE, ALTA BLANCHE, A.B. Michigan 1909.....	Otsego, Mich.
CHING, TSO YEE, A.B. Pekin 1908.....	Canton, China
CHIPKIN, ISRAEL SOLOMON, B.S. 1913, <i>Sociology</i>	New York City
CLARK, MARY AUGUSTA, A.B. Mt. Holyoke 1903.....	Bedford, N. Y.
CLEAVER, WILLIAM G., A.B. Franklin and Marshall 1896.....	Elkins Park, Pa.
COCHRAN, GRACE HAZEL, A.B. Wellesley 1911, <i>English</i>	Sheffield, Pa.
COCHRANE, JANE A., A.B. Michigan 1906, <i>English</i>	Washington, D. C.
COR, MIRIAM STORRS, B.S. Smith 1899, <i>Zoölogy</i>	New York City
COHEN, BERTHA, A.B. Adelphi 1910, <i>Mathematics</i>	Brooklyn, N. Y.
COLVILLE, ELISE HILDEGRADE, A.B. N. Y. N. C. 1912, <i>Mathematics</i> , New Brighton, S. I.	
CONNOLLY, JAMES FRANCIS, B.S. 1912.....	Brooklyn, N. Y.
COOLEY, GEORGE ELLIOTT, Ph.B. St. Lawrence, 1897.....	New York City

- COY, GENEVIEVE LENORE, B.S. 1913, *Psychology*.....Sandwich, Ill.
- CRANSTON, GEORGIA, A.B. Dickinson 1906, *German*.....Harrisburg, Pa.
- CUSHMAN, H. MARY, B.S. 1907.....Reading, Pa.
- DALE, ELLA ALICE, A.B. Kansas 1900, *English, History*.....Belleville, Kans.
- DAVIDSON, BESSIE MARGARET, Ph.B. Hiram 1908, *Latin*.....Ashland, Ohio
- DICKSON, MARGUERITE, A.B. N. Y. N. C. 1913.....New York City
- DIDCOCT, JOHN JOSEPH, Ph.B. Wooster 1905, A.M. 1908.....Brooklyn, N. Y.
- DONHAM, HAZEL, A.B. Bates 1903.....Hebron, Me.
- DRESHER, HUDSON W., B.S. 1913, *Physics*.....New York City
- DUNCAN, WILLIAM MALCOLM, A.B. Lafayette 1904, LL.B. Brooklyn
Law School 1908.....Elizabeth, N. J.
- DYER, WERTER C., A.B. Ohio 1903, *Social Economy*.....Williamsport, Ohio
- EDGERTON, EDWARD I., B.S. 1908, *Mathematics*.....New York City
- EDWARDS, SARAH CORNELIA, A.B. Mt. Holyoke 1899.....Metuchen, N. J.
- ELLINGTON, LURA BOYD, A.B. Industrial and Institute College 1906,
Sociology, History.....Kosciusko, Miss.
- EHRMAN, SHERIDAN WILLIAM, B.L. Michigan 1896, *Social Economy*.....Decatur, Ill.
- EKLUND, EDWIN GUSTAVE, A.B. Minnesota 1908.....Moorhead, Minn.
- ENTRIKIN, FANNIE KNOWLES, A.B. Beloit 1906, *English*.....Moline, Ill.
- ESPEY, JOHN MORTON, A.B. Wooster 1902.....Shanghai, China
- EVANS, FANNIE, A.B. South Carolina 1902, *History*.....Marion, S. C.
- EVANS, SARAH GOVE, A.B. N. Y. N. C. 1911, *Romance Philology*...Rochester, N. H.
- EZEKIELS, JEANNETTE, B.S. 1910, *Sociology*.....Butte, Mon.
- FALKNER, CLARK T., B.S. Trinity 1903.....S. Manchester, Conn.
- FARR, BARCLAY HARDING, A.B. Princeton 1912, *English, Latin*...West Orange, N. J.
- FARVER, D. FERNE, A.B. Grinnell 1910, *Latin*.....Lyons, Iowa
- FERNANDEZ, MARIA LUISA, B.S. Havana Institute 1911, Ph.D. National
University (Havana), *Romance Philology*.....Havana, Cuba
- FISK, SARAH ELLEN, B.S. 1913, *Philosophy*.....South St. Paul, Minn.
- FITTS, JOSEPH COOKE, A.B. Princeton 1912.....Washington, N. J.
- FRAME, RACHEL MOORE, A.B. 1910, *English*.....Mt. Vernon, N. Y.
- FRENCH, EMMA BELLE, A.B. Baker 1904, *Latin*.....Tempe, Ariz.
- GARLOCK, EDITH A., Ph.B. Syracuse 1910.....Spencerport, N. Y.
- GHISELIN, S. B. M., A.B. Washington and Lee 1909.....Shepherdstown, W. Va.
- GILLETTE, CHARLOTTE EMMA, A.B. Syracuse 1909.....Watertown, N. Y.
- GOOD, LOTTIE, A.B. N. Y. N. C. 1911.....New York City
- GOODRICH, FOSTER, B.S. Wooster Polytechnic 1893, *History*.....Malden, Mass.
- GRAHAM, LUCY JANE, B.S. Syracuse 1910, *Mathematics*.....Great Neck, L. I.
- GRANT, FOREST, B.S. 1913.....East Orange, N. J.
- GRAY, GRETA, B.S. Massachusetts Institute of Technology 1910...Spokane, Wash.
- GRAY, WILLIAM SCOTT, B.S. Chicago 1913.....Coatsburg, Ill.
- GREEN, GEORGE M., A.B. Rutgers 1910, A.M. 1913.....Bound Brook, N. J.
- GURLEY, RAYMOND BENNETT, Ph.B. Chicago 1909.....East Orange, N. J.
- HAHN, MAGADALENE, A.B. Nebraska 1913, *Biology*.....Wayne, Neb.
- HALL, MARIE ALINE, B.S. 1912.....San José, Calif.
- HAMBRIGHT, JOHN BRENNEMAN, A.B. Lebanon Valley 1906.....Englishtown, N. J.
- HANLEY, FRANCES, B.S. N. Y. U. 1910.....New York City
- HARONIAN, GADARINÉ, A.B. American College (Constantinople) 1913
Romance Philology, Geography.....New York City
- HARRINGTON, EVALINA, B.S. 1909, *Philosophy*.....New York City
- HARTLIEB, RUTH COLUMBIA, A.B. Cincinnati 1913, *Mathematics*...Cincinnati, Ohio
- HASTY, PHILIP S., B.S. 1912.....Lansing, Mich.
- HAUPIN, JAMES P., A.B. State Normal (Albany) 1910, *Mathematics*, Bloomfield, N. J.
- HENRY, DAVID WATTERS, A.B. State Normal (Kansas) 1911.....Norwalk, Conn.
- HERTZ, LILLIAN, A.B. N. Y. N. C. 1910, *Mathematics*.....New York City

- HOFMANN, AMALIA IDA, A.B. Northwestern 1909, *German*.....Chicago, Ill.
- HOLZMAN, ABRAHAM, B.S. Adelphi 1906.....Brooklyn, N. Y.
- HORTON, HANNAH, A.B. Oberlin 1913, *Zoölogy*.....Brooklyn, N. Y.
- ISAACS, MERVIN, A.B. C. C. N. Y. 1913, *Sociology*.....New York City
- IRWIN, ETHEL CHADDOCK, B.S. 1913.....Quincy, Ill.
- JOHNSON, BASIL HOWARD, A.B. Wake Forest 1913, *Social Economy*, St. Pauls, N. C.
- JOHNSON, IRENE GRACE, A.B. 1912, *Mathematics*.....Mt. Vernon, N. Y.
- JOYCE, MABEL A., A.B. Washington 1906, B.S. State College (Washington) 1909.....Seattle, Wash.
- KANE, EDWIN AUGUSTINE, A.B. Fordham 1913.....New York City
- KARMEI, CHARLOTTE ESTELLE, A.B. N. Y. N. C. 1911, *Mathematics*, New York City
- KEEN, CHARLES SCULL, Ph.B. Bucknell 1899, B.S. Rochester Theological Seminary 1902.....Shamokin, Pa.
- KELDER, JACOB, A.B. Hope 1904, *Philosophy*.....Coytesville, N. J.
- KELLY, LAWRENCE ALOYSIUS, JR., B.S. C. C. N. Y. 1905, *Mathematics*, New York City
- KER, LEONA MINNIE, B.S. 1913, *English*.....Montreal, Can.
- KIDNEY, CLARA HOPE, Ph.B. Hiram 1908, *Latin*.....Ravenna, Ohio
- KING, EDA LAURA, A.B. Michigan 1913, *English*.....Peking, China
- KING, MARIAN ELIZABETH, A.B. Elmira 1904, *English*.....New York City
- KLEIN, CHARLES LOUIS, B.S. 1908, *History*.....New York City
- KLOSTER, WALTER J., A.B. 1913, *Mathematics*.....New York City
- KNAPP, LELAN P., A.B. Colby 1903.....Nutley, N. J.
- KNEELAND, HILDEGARDE, A.B. Vassar 1911.....Brooklyn, N. Y.
- KNOX, MARGUERITE, A.B. Smith 1913, *Mathematics*.....Glen Ridge, N. J.
- KUDLICH, ROSWITHA A., A.B. Swarthmore 1913, *German*.....New York City
- KUGLER, ANNA AUGUSTA, A.B. 1911, *German*.....New York City
- KURTZ, EDWARD, B.S. 1912, *History, Sociology*.....Olney, Ill.
- LAMOTHE, ALICE PHILOMENA, A.B. N. Y. N. C. 1911, *Romance Philology*.....New York City
- LAMPORNT, ANNA, A.B. N. Y. N. C. 1909.....New York City
- LE COMTE, HAROLD, A.B. C. C. N. Y. 1904.....New York City
- LEE, AUGUSTUS SCOTT, A.B. Peabody 1910.....Evelyn, W. Va.
- LEE, CHARLOTTE EMMELINE, B.S. 1907, A.B. Mt. Holyoke 1907, *Biology*.....Huntington, L. I.
- LEE, SOONG-DAN, A.B. Wisconsin 1913, *Economics*.....Shanghai, China
- LELAND, SAMUEL ROBB, A.B. Hanover 1905, B.D. Drew Theological 1910.....Buchanan, N. Y.
- LEVENE, HARRY, B.S. 1908, *Philosophy, Psychology*.....New York City
- LITTLE, ELEANOR HOWELL, A.B. Wellesley 1908, *Social Economy*....Media, Pa.
- LOGAN, CAROLINE E., A.B. Wilson 1906.....York, Pa.
- LONG, RAYMOND V., B.S. 1913.....Hagerstown, Md.
- LOWSON, JESSIE LATTO, M.A. St. Andrews (Scotland) 1907, *Geography*.....Stirling, Scotland
- LUCCOCK, ETHEL, A.B. Goucher 1910, *Mathematics*.....Helena, Mont.
- LUND, JOHN, A.B. Clark 1913, *History*.....Boylston, Mass.
- MCCALL, WILLIAM ANDERSON, B.S. Cumberland 1911, A.B. Lincoln Memorial 1913, *Psychology*.....Wofford, Ky.
- MCCOY, JOHN PETER, A.B. State Normal (Kansas) 1913, Ph.B. Chicago 1913, *Economics*.....Wilson, Kans.
- MCGOLDRICK, ANNA L., A.B. Adelphi 1913.....Brooklyn, N. Y.
- MACKEY, JEAN ARMOUR, B.Pd. Ypsilanti 1906, A.B. 1907, *Latin*.....Ypsilanti, Mich.
- MCLEAN, MARGUERITE LOUISE, A.B. Wisconsin 1907.....Menomonie, Wis.
- MANDEL, SAMUEL, A.B. C. C. N. Y. 1906, *Mathematics*.....Brooklyn, N. Y.
- MANNING, GEORGE ARCHIE, A.B. De Pauw 1911, *Economics*.....Economy, Ind.
- MASTERMAN, FLORENCE CLARRA, A.B. Smith 1911, *Zoölogy*.....Hornell, N. Y.

- MAYER, EUGENE SIMON, C.E. Rennselaer Polytechnic 1908, *Mathematics*Peekskill, N. Y.
- MERRITT, EDITH S., A.B. Vassar 1900.....Newark, N. J.
- MILLER, DONALD HERBERT, A.B. 1907.....Binghamton, N. Y.
- MILLER, GEORGE FREDERICK, B.S. Carleton 1903, B.S. Missouri 1912Farmington, Mo.
- MILLER, WILLIAM DATES, B.S. 1913.....Moravia, N. Y.
- MITCHUM, COUNTESS ANN, A.B. Peabody 1910, *Zoölogy*.....Nashville, Tenn.
- MORGAN, GEOFFERY F., A.B. Stanford 1910, *Social Economy*.....Los Angeles, Calif.
- MORRELL, ALBERTA, A.B. N. Y. N. C. 1911, *Mathematics*.....New York City
- MORRIS, MARY FLORENCE, B.S. 1910, *Mathematics*.....Cortland, N. Y.
- MUIR, JAMES NICOL, B.S. Pennsylvania 1904.....Orange, N. J.
- NETERER, SAMUEL J., B.L. Whitman 1910, *Sociology*.....Seattle, Wash.
- NEUMANN, JOSHUA HESHEL, A.B. N. Y. U. 1913, *English*.....Brooklyn, N. Y.
- NEWELL, ROBERTA, B.S. 1908, *History, Sociology*.....Natchitoches, La.
- NYI, JOSHUA ZAU-TSUNG, B.S. 1913.....Hangchow, China
- O'BRIEN, CHARLOTTE E., A.B. N. Y. N. C. 1910, *Mathematics*.....New York City
- OPPENLANDEP, ANNA, A.B. Swarthmore 1913, *English*.....Mt. Airy, Pa.
- ORLIANSKY, JOSEPH BARNET, B.S. 1913, *Latin*.....New York City
- OSBORN, JOHN WILLIAM, B.L. Western Reserve 1907... San Fernando, Pampauga, P. I.
- PACKARD, FREDERICK LUCIUS, A.B. Bowdoin 1906.....Montclair, N. J.
- PARONI, CLELIA AUGUSTA, B.L. California 1900.....Berkeley, Calif.
- PEARCE, GERTRUDE, A.B. Wellesley 1899, A.M. Pennsylvania 1911, *English*.....Cazenovia, N. Y.
- PETERS, MABEL KATHERINE, B.S. 1913.....Carbondale, Ill.
- PHILHOWER, CHARLES ALPAUGH, B.S. Dickinson 1905, A.M. 1909, *English*.....Chatham, N. Y.
- PHILLIPS, MRS. HUBERT, A.B. Chattanooga 1908, *English*.....Dayton, Ohio
- PINKHAM, FLORENCE A., A.B. Bates 1910.....Lewiston, Me.
- POWELL, JESSIE ALEXANDER, A.B. Illinois 1906, *Latin, English*.....Corydon, Ky.
- PRASHKER, LOUIS, B.S. C. C. N. Y. 1913, *Sociology*.....New York City
- RAGLAND, FANNIE JANE, A.B. Miami 1908.....Urbana, Ohio
- RALPH, MILDRED, B.S. Colby 1912, *Zoölogy, Chemistry*.....New York City
- REEVE, MILDRED EMMA, A.B. Western Reserve 1908, *Mathematics*, Willoughby, Ohio
- REYNOLDS, FRIEDA ROSE, A.B. Michigan 1908, *English, History*...Milwaukee, Wis.
- RICHARDS, HENRY, B.S. Colgate 1909.....White Plains, N. Y.
- RICHARDSON, CHARLOTTE, B.S. 1912, *English*.....New York City
- RIGHTER, LEONARD, B.S. 1913.....Asbury Park, N. J.
- RILEY, JOHN LAWRENCE, B.S., *Social Economy*.....East Weymouth, Mass.
- ROACH, ETHEL MINERVA, B.S. 1911, A.B. Buchtel 1908.....Akron, Ohio
- ROANTREE, WILLIAM FOX, A.B. Colgate 1904.....New York City
- ROBINSON, DORA MAY, Ph.B. Syracuse 1912.....Middleboro, Mass.
- ROCKWELL, HARRY WESTCOTT, A.B. Brown 1903.....White Plains, N. Y.
- ROCKWOOD, STANLEY W., B.S. Dartmouth 1911, *Social Economy*...Brookline, N. H.
- RODGERS, ROBERT HENRY, B.S. 1913.....Portland, Ore.
- ROGERS, BLANCHE, A.B. Mississippi 1906.....New Albany, Miss.
- ROMER, HELEN DORTHEA, A.B. Vassar 1912, *Psychology*.....Ossining, N. Y.
- RONZONE, ETHEL, B.S. Mills 1913.....Redlands, Calif.
- ROSENBLUM, JACQUES CHARLES, B.S. State Normal (Albany) 1913, *Sociology*.....New York City
- ROSENTHAL, ADA JOHANNA, A.B. N. Y. N. C. 1913, *German*.....New York City
- RUNNELS, ROSS OWEN, B.S. 1913, *Psychology*.....Eau Claire, Mich.
- SACHS, WILLIAM SAMUEL, A.B. Yale 1913, *Mathematics*.....New Haven, Conn.
- SANDERS, EDWARD ISAAC, A.B. C. C. N. Y. 1912.....New York City
- SCHOETTLE, GEORGE H., B.S. C. C. N. Y. 1908.....New York City

- SEALY, ALICE, A.B. Adelphi 1913, *English*.....Lynbrook, L. I.
 SHANKS, ROBERT HERBERT, A.B. Wake Forest 1910, *Mathematics*...Dabney, N. C.
 SHELDON, ALBERT BRADLEY, B.S. Huron 1913, *Philosophy*.....Huron, S. D.
 SHEPPARD, BENJAMIN MOORE, A.B. Lafayette 1902.....Dobb's Ferry, N. Y.
 SHIVELY, BENJAMIN FRANK, A.B. Otterbein 1905, B.D. Bonebrake
 Theological 1907.....Kyoto, Japan
 SIMMONS, ISABEL, A.B. Wellesley 1907.....Brooklyn, N. Y.
 SIMMONS, KATE CAMERON, B.S. 1912.....Brooklyn, N. Y.
 SIMPSON, HOMER NELSON, A.B. Cornell 1909.....Rutherford, N. J.
 SINDELAR, CHARLES, B.S. C. C. N. Y. 1896, *Mathematics*.....New York City
 SINOPOLI, EMILIA F., B.S. 1913, *Latin*.....New York City
 SISSON, DELMAR FRANCIS, B.S. Colgate 1913, *History*.....Wellsbridge, N. Y.
 SMITH, MATTHEW D., A.B. Dakota Wesleyan 1912, *History*.....Alpena, S. D.
 SMITH, SARAH JANE, A.B. Randolph-Macon 1901, *Mathematics*..Charlottesville, Va.
 SMITH, WILLIAM HEMENS, A.B. Harvard 1895.....East Orange, N. J.
 SNOW, MINNIE ROSE, Ph.B. Wesleyan 1897, *Mathematics*.....Brooklyn, N. Y.
 SPEECH, HAROLD EUGENE, B.S. 1912.....Mt. Vernon, N. Y.
 SPRINGSTEAD, OLIVE JEANNETTE, A.B. Park 1913.....New York City
 STANTON, MARGARET BEAUMONT, B.S. Iowa 1902, A.M. Wisconsin 1908, Ames, Iowa
 STARK, RUTH AUGUSTA, A.B. Berkeley 1913, *German*.....Oakland, Calif.
 STEEGAR, WILLIAM HENRY, B.S. N. Y. U. 1907.....Garfield, N. J.
 STERLING, WELLINGTON DEFORTE, B.L. Michigan 1899.....New York City
 STEUERWALD, HELEN, A.B. N. Y. N. C. 1912.....New York City
 STEWART, THOMAS B., A.B. Iowa State 1909.....Bellevue, Iowa
 STRUCK, FERDINAND THEODORE, B.S. Oregon 1911, *Architecture*...Hood River, Ore.
 STUMPF, BEATRICE BACH, A.B. Colorado 1905, *English*.....Salida, Colo.
 SWAIN, CARL C., B.S. St. Olaf 1907.....Zumbrota, Minn.
 TALLMAN, LAVINIA, A.B. Vassar 1904.....East Orange, N. J.
 TERRILL, HAROLD MORLOCK, B.S. Rutgers 1912.....Rahway, N. J.
 THOMAS, ALICE LILLIAN, B.S. 1911, A.B. Allegheny 1903.....Conneaut Lake, Pa.
 THOMASER, EDMUND, A.M. Gymnasium Elberfeld 1890, *German*..New York City
 THOMPSON, WILLIAM CHARLES, B.S. Missouri 1913, *Social Economy*, Columbia, Mo.
 TIDYMAN, WILLARD F., A.B. Baker 1911.....Marion, Kans.
 TORRES, ARTURO, B.S. 1913, *Psychology*.....San José, Costa Rica
 TOVEY, IDYLENE MABEL, A.B. Iowa 1908.....Des Moines, Iowa
 TRABUE, MARION REX, A.B. Northwestern 1911, *Psychology*...Greencastle, Ind.
 VAN OOT, BENJAMIN HENRY, B.S. 1913.....Oswego, N. Y.
 VAN SCHAIK, LEMUEL W., A.B. Colgate 1904.....Scarsdale, N. Y.
 WAITE, CHARLOTTE AUGUSTA, B.S. 1911, *History*.....Kalamazoo, Mich.
 WALTHER, CATHERINE MARGARETTA, A.B. 1912, *German*.....Mt. Vernon, N. Y.
 WASHBURN, MARTHA LUCILE, A.B. Wisconsin 1907.....Sturgeon Bay, Wis.
 WELLS, MARGARET ELIZABETH, B.S. 1911.....Reading, Pa.
 WELZMILLER, BLANCHE WYLIE, (MRS.) B.S. 1911.....New York City
 WHITE, ARTHUR EDWARD, B.S. Cornell 1913.....Brooklyn, N. Y.
 WHITE, HOWARD DARE, A.B. Franklin and Marshall 1897.....Ridgewood, N. J.
 WHITNEY, LURA I., B.S. 1913.....Toledo, Ohio
 WHITTAKER, BURTIS E., A.B. Brown 1898, Pd.B. State Normal (Albany)
 1899.....Philadelphia, N. Y.
 WILCOX, WALTER ELWOOD, A.B. Colgate 1912.....Mystic, Conn.
 WILFORD, MARY GERTRUDE, B.S. 1912, *Latin*.....New York City
 WILLIAMS, EDGAR JOHN, B.S. 1912, *English*.....Wilkes-Barre, Pa.
 WILLIAMS, HOMER B., A.B. Ohio Northern 1891, Pd.D. 1913, Ph.B. 1912,
 A.M. Baldwin-Wallace 1913.....Sandusky, Ohio
 WILSON, MARY AGNES, A.B. Vassar 1913.....Indiana, Pa.
 WITHERS, SAMUEL CLAYTON, A.B. Haverford 1904.....New York City

WONG, KAI MING, B.S. 1913, *Economics, Constitutional Law*.....Canton, China
 WOOD, HELEN, A.B. Mt. Holyoke 1904.....Newton Highlands, Mass.
 WOODHULL, MILDRED, A.B. 1909.....Yonkers, N. Y.
 YATES, EDNA, B.L. California 1912.....Oakland, Calif.
 YOUNG, ANNA IRWIN, A.B. Agnes Scott 1910, *Mathematics*.....Atlanta, Ga.
 ZAGAT, LILLIE, A.B. N. Y. N. C. 1910, *Mathematics*.....New York City

UNCLASSIFIED GRADUATES

ALLAN, AGNES CECILIA, New Rochelle 1909.....New York City
 ANDERSON, BINGLEY, A.B. Vassar 1896.....Dobb's Ferry, N. Y.
 BARROW, ELVIRA EUDORA, A.B. Randolph-Macon 1911.....Bluefield, W. Va.
 BISSELL, GRACE LOUISE, A.B. Wellesley 1901.....Buffalo, N. Y.
 BURLING, EDNA MAY, A.B. Mt. Holyoke 1904.....Summit, N. J.
 CALDWELL, HUGH HARRIS, A.B. Davidson 1903.....Charlotte, N. C.
 COPELAND, LILLIAN S., A.B. Boston 1909.....North Reading, Mass.
 CORNISH, CHARLOTTE HARRISON, B.S. 1907.....Gillette, N. J.
 CRESPI, ALBERTA ROSEALBA, A.B. Smith 1912.....Brooklyn, N. Y.
 GRAHAM, MARGARET A., Ph.D. Cornell 1913.....Jersey City Heights, N. J.
 GREENBERG, BENJAMIN B., A.B. C. C. N. Y. 1906, A.M. N. Y. U. 1911
Brooklyn, N. Y.
 GREIFF, LOTTI, A.B. 1911.....New York City
 GROSSMAN, JACOB B., A.B. 1908.....New York City
 HAGGART, MARGARET H., B.S. Kansas State Agricultural 1905.....Topeka, Kans.
 HAYNES, MERRITT W., A.B. Rochester 1905.....Bayonne, N. J.
 HUNTING, ELLA, B.S. 1905.....Hartford, Conn.
 ISABEL, ERNESTINE C., A.B. 1912.....New York City
 KUKI, ICKIZO, A.B. Imperial College (Japan) 1906.....Tokyo, Japan
 LAKE, HARRISON MORTON, A.B. Stanford 1907.....Oakland, Calif.
 McLAURY, HARRIET E. H., B.S. 1913.....New York City
 QUINN, EDWARD JOSEPH, B.S. N. Y. U. 1912.....New York City
 RANKIN, MARY EVERETT, B.S. 1913.....Ithaca, N. Y.
 RICE, DAVID EDGAR, Ph.D. 1912, A.B. Pennsylvania 1896, A.M. 1899, Brooklyn, N. Y.
 SAILER, THOMAS H. P., A.B. Princeton 1899, Ph.D. Pennsylvania 1895, Englewood, N. J.
 SCHWEIS, EYTA MAY, A.B. 1912, A.M. 1913.....New York City
 SHARLITT, MICHAEL, A.M. 1909, A.B. C. C. N. Y. 1903.....New York City
 SULLIVAN, ALICE STEPHANIE, B.S. 1910.....New York City
 WARD, ELIZABETH HARRISON, B.S. 1910.....Oneonta, N. Y.
 WELLER, MARION, A.B. Chicago 1897.....Chicago, Ill.
 WRIGHT, ELEANOR, B.S. 1912.....Baltimore, Md.
 WUNDERLICH, ELSA P., A.B. 1912, A.M. 1913.....Tarrytown, N. Y.

Professional Students Candidates for the Bachelor's Degree and Diploma

SENIOR B.S.

ALEXANDER, EFFIE (*Elementary Supervision*).....Adrian, Mich.
 ALLEN, MARION ELIZABETH (*Biology*).....Brooklyn, N. Y.
 ANDREWS, SOPHIA TOWNSEND (*German*).....New York City
 ARMSTRONG, EDITH MARIAN (*Household Arts*).....Scranton, Pa.
 ARMSTRONG, MARTHA WARD (*Household Arts*).....Birmingham, Ala.
 AUERBACH, MATILDA (*Mathematics*).....New York City
 AVERY, BERTHA CLAIRE (*Household Arts*).....Minneapolis, Minn.
 BADANES, BERTHA (*Elementary Education*).....Forest Park, N. Y.
 BAILEY, LUCY CATHERINE (*English*).....Clarksville, Tenn.
 BAKER, MARY LOUISE (*Kindergarten*).....Lockport, N. Y.
 BARDENHEUER, CLARA EMILY (*German*).....College Point, N. Y.
 BARNUM, GERTRUDE ELIZABETH (*Domestic Science*).....Jericho Center, Vt.

BARRICK, JEAN (<i>Household Arts</i>).....	Jersey City, N. J.
BARRINGER, ANNA MARIA (<i>Fine Arts</i>).....	Charlottesville, Va.
BAUM, MINNIE (<i>Elementary Education</i>).....	New York City
BEACH, JESSIE AMELIA (<i>Mathematics</i>).....	Lowville, N. Y.
BECK, MINNA McL. (<i>Fine Arts</i>).....	Atlanta, Ga.
BECKER, SADIE MARION (<i>Industrial Arts</i>).....	Keokuk, Ia.
BEGGS, MARY GERTRUDE (<i>Household Arts</i>).....	Ashland, Ill.
BEHNKEN, ERNA L. (<i>Elementary Supervision</i>).....	Brooklyn, N. Y.
BEISWANGER, ESTHER N. (<i>Household Arts</i>).....	New York City
BENNETT, MILDRED (<i>Household Arts</i>).....	Brooklyn, N. Y.
BERNSTEIN, LOUIS (<i>History</i>).....	Brooklyn, N. Y.
BEST, SARAH (<i>Household Arts</i>).....	Fargo, N. D.
BIDWELL, ELIZABETH FIDELIA (<i>Household Arts</i>).....	Lapeer, Mich.
BIGELOW, ALICE VIOLET (<i>Elementary Education</i>).....	New York City
BIRNBAUM, HARRY (<i>English</i>).....	New York City
BISHOP, VICTORIA G. (<i>Household Arts</i>).....	New York City
BLAKE, ANNE SEYMOUR (<i>Kindergarten Supervision</i>).....	Brooklyn, N. Y.
BLAKE, MARIAN MORSE (<i>Household Arts</i>).....	Hoosick Falls, N. Y.
BLAKEY, SUSIE (<i>Household Arts</i>).....	Boulder, Colo.
BLODGETT, ELIZABETH (<i>Elementary Supervision</i>).....	New York City
BONNER, GERTRUDE EVANGELINE (<i>Physical Science</i>).....	New York City
BOSWORTH, M. BLANCHE (<i>Kindergarten Supervision</i>).....	New York City
BOUTON, MAY INNES (<i>Household Arts</i>).....	Cambridge, Mass.
BOWDEN, MURIEL AMANDA (<i>Mathematics</i>).....	New York City
BRADLEE, GEORGE LOUIS (<i>English</i>).....	New York City
BRADLEY, MARIE MENZIE (<i>Household Arts</i>).....	Toledo, Ohio
BRIGGS, ANNIE BENNET (<i>Kindergarten Supervision</i>).....	East Orange, N. J.
BROWN, FLORENCE NORTON (<i>Mathematics</i>).....	Silver Creek, N. Y.
BROWN, OLIVE (<i>Household Arts</i>).....	Westfield, Ind.
BRYAN, FRANCES ANNA (<i>Latin</i>).....	Savona, N. Y.
BUCHANAN, MILDRED CLAIBORNE (<i>Fine Arts</i>).....	Louisville, Ky.
BUEHRER, GODFREY CHARLES (<i>Music</i>).....	Toledo, Ohio
BUELL, FRANCES M. (<i>English</i>).....	Bryn Athyn, Pa.
BUERMEYER, META D. (<i>Music</i>).....	Brooklyn, N. Y.
BURCHAN, LUELLA (<i>English</i>).....	New York City
BURGEVIN, CAROLINE LOUISE (<i>German</i>).....	Port Chester, N. Y.
BURTENSHAW, IRENE MARY (<i>Physical Science</i>).....	Brooklyn, N. Y.
BUSICK, MATHILDA (<i>Kindergarten Supervision</i>).....	New York City
CAGWIN, SUSAN M. (<i>Household Arts</i>).....	Delaplane, Va.
CARMAN, MARGARET ISABEL (<i>English</i>).....	Flushing, L. I.
CARPENTER, WINIFRED MAUD (<i>Household Arts</i>).....	Amherst, Mass.
CAUDELL, MYRTLE VIOLA (<i>Household Arts</i>).....	Buffalo, N. Y.
CAULFIELD, GENEVIEVE (<i>English</i>).....	Haverstraw, N. Y.
CHALMERS, ULA MONNETTA (<i>English</i>).....	San Diego, Calif.
CHAMBERLAIN, NINA LENITA (<i>Household Arts</i>).....	Sparkill, N. Y.
CHEN, YONG (<i>Elementary Education</i>).....	Kiangsu, China
CHERRY, ETHEL NEWTON (<i>English</i>).....	New Haven, Conn.
**CLARK, ANNA MANSFIELD.....	Salisbury, Conn.
COHN, CAROLINE (<i>Elementary Education</i>).....	Orange, N. J.
COHN, PAULINE (<i>English</i>).....	New York City
COOK, MARY MERROW (<i>German</i>).....	Northampton, Mass.
**COOKE, MARGARET MONTAGUE (<i>Music</i>).....	Honolulu, T. H.
CORYELL, EDNA (MRS.) (<i>Household Arts</i>).....	Berkeley, Calif.
COSS, MILLICENT M. (<i>Household Arts</i>).....	Greencastle, Ind.

** Degree only.

COX, LEONORA (<i>Latin</i>).....	Devonshire, Bermuda
CRANE, MYRTLE (<i>Mathematics</i>).....	Waterloo, Ia.
CRANOR, KATHERINE (<i>Household Arts</i>).....	N. Wilkesboro, N. C.
CRENSHAW, IONE (<i>Fine Arts</i>).....	San Diego, Calif.
CRESPO, JOSÉ DANIEL (<i>Physical Science</i>).....	Pesé, Panama
CRISSEY, GENEVIEVE (<i>English</i>).....	Warwick, N. Y.
CURTIS, NAIDA LOUISE (<i>Physical Education</i>).....	Dixon, Mont.
DARROUGH, MADELINE (<i>Kindergarten Supervision</i>).....	Houston, Tex.
DELUCE, OLIVA SUSANNA (<i>Fine Arts, Elementary Supervision</i>)....	New York City
**DEMAREST, THEODORA FRELINGHUYSEN.....	Passaic, N. J.
DEZELLER, M. CORINNE (<i>Mathematics</i>).....	New York City
DICK, RHODA ELLEN (<i>Household Arts</i>).....	Chicago, Ill.
DILLER, HELEN ELIZABETH (<i>English</i>).....	New York City
DOUGLAS, DOROTHY (<i>Household Arts</i>).....	Flatbush, N. Y.
DRUM, WARREN N. (<i>Elementary Supervision</i>).....	Bloomsburg, Pa.
*DWYER, HELEN ELIZABETH (<i>English</i>).....	New York City
EDDY, RUTH (<i>Fine Arts</i>).....	Oswego, N. Y.
EDGERTON, RUTH (<i>Physical Education</i>).....	Manhattan, Kans.
EGGERS, CHARLOTTE MARGARET (<i>Household Arts</i>).....	Cincinnati, Ohio
ELLIOTT, LUCY CABLE (<i>Industrial Arts</i>).....	Columbus, Ohio
ERWIN, ADA BEATRICE (<i>Household Arts</i>).....	Brookings, S. D.
EVANS, BLODWEN (<i>Household Arts</i>).....	Johnstown, Pa.
EVANS, MARGUERITA ALICE (<i>Household Arts</i>).....	Ottumwa, Ia.
FANSHER, OPAL (<i>Latin</i>).....	Edmond, Okla.
FARRELL, HELEN W. (<i>Elementary Education</i>).....	New York City
FENTON, WILLIAM RAY (<i>Industrial Arts</i>).....	Highgate, Ontario, Can.
FERGUSON, LUCILE W. (<i>Primary Supervision</i>).....	Marquette, Mich.
FERN, IRVING WILLIAM (<i>German</i>).....	Brooklyn, N. Y.
FICHTER, WILLIAM LEOPOLD (<i>German</i>).....	New York City
FINLEY, ADA BROWNELL (<i>Industrial Arts</i>).....	Woodstock, Ill.
FISHER, GENEVIEVE (<i>Household Arts</i>).....	Springfield, Ill.
FLEGAL, MARY EDNA (<i>Fine Arts</i>).....	Phillipsburg, Pa.
FOX, ANNA S. (<i>Physical Education</i>).....	New York City
FRANCIS, EMMA (<i>Household Arts</i>).....	Canton, Ohio
FRANK, E. ELIZABETH (<i>Music</i>).....	Bound Brook, N. J.
FREEMAN, HELEN WHITING (<i>Household Arts</i>).....	Glen Ridge, N. J.
FRIEDRICH, CHARLES HENRY SIEBERT (<i>Mathematics</i>).....	New York City
GARDINER, CARA LESLIE (<i>Household Arts</i>).....	New York City
GARRISON, MYRTLE (<i>Elementary Supervision</i>).....	Philadelphia, Pa.
*GATES, FRANCES WILLARD (<i>English</i>).....	Flushing, L. I.
GIFFORD, GERTRUDE INGALLS (<i>Kindergarten Supervision</i>).....	Albany, N. Y.
GILBERT, KATHARINE (<i>Physical Education</i>).....	Burlington, Ia.
GILLET, LUCY HOLCOMB (<i>Household Arts</i>).....	Southwick, Mass.
GILLILAND, FRANCES KATHERINE (<i>Household Arts</i>).....	Terrace Park, Ohio
GLASSER, HENRY GALEN (<i>Mathematics</i>).....	Dunellen, N. J.
GLEASON, DOROTHY STEARNS (<i>Physical Education</i>).....	New York City
GOLDMAN, JULIA (<i>German</i>).....	New York City
GOLL, BERTHA CLEMENCE (<i>English</i>).....	Brooklyn, N. Y.
GOLLUBIER, EMIL (<i>Physical Education</i>).....	New York City
GOODMAN, BENJAMIN BERTRAM (<i>Physical Education</i>).....	New York City
GOODMAN, CECYL BARTLETT (<i>Household Arts</i>).....	Grand Forks, N. D.
GREATHEAD, ELSIE S. (<i>Elementary Supervision</i>).....	McConnellsburg, Pa.
GREEN, EDNA (<i>English</i>).....	Princeton, N. J.
GREEN, ELIZABETH M. (<i>Household Arts</i>).....	Newark, N. J.

*Candidate for A.B. degree. **Degree only.

GRIFFITH, JEANE (<i>Household Arts</i>)	Easton, Pa.
GROF, CHRISTINA (<i>German</i>)	Ossining, N. Y.
HALE, ALFARETTA MAY (<i>Household Arts</i>)	Brooklyn, N. Y.
HALL, BERTHA ELIZABETH (<i>Physical Science</i>)	Saratoga Springs, N. Y.
**HALLOCK, KATHARINE R.	Jersey City, N. J.
HALLORAN, WILLIAM FREDERICK (<i>Industrial Arts</i>)	Cortland, N. Y.
HARBISON, JESSIE ALICE (<i>Fine Arts</i>)	Sewickley, Pa.
HARPER, EDNA MAY (<i>Household Arts</i>)	Brooklyn, N. Y.
HAWKES, ANNIE HALL (<i>Household Arts</i>)	Waseca, Minn.
HAWESLEY, ALICE (<i>Physical Education</i>)	Brooklyn, N. Y.
HEATH, HARRIET ELIZABETH (<i>Physical Education</i>)	Mystic, Conn.
HELFMAN, FANNY (<i>History</i>)	New York City
HESS, ADAH HENRIETTA (<i>Household Arts</i>)	South Bend, Ind.
HEWITT, MARGUERITE N. (<i>Household Arts</i>)	Indianapolis, Ind.
HOEY, MARION ALICE (<i>German</i>)	Fort Edward, N. Y.
HOLLOWAY, MARIE EDNA (<i>Latin</i>)	New York City
HOLMAN, ROUBLE FEROL (<i>Music</i>)	Tacoma, Wash.
HOPKINS, HARRIET JULIA (<i>Household Arts</i>)	Cherryvale, Kans.
HOWARD, ANNIE E. (<i>Industrial Arts</i>)	Pasadena, Calif.
HUFF, SUSIE ADAMS (<i>Household Arts</i>)	Brooklyn, N. Y.
HUGGINS, WILLIS N. (<i>Industrial Arts</i>)	Selma, Ala.
HUMPHREYS, LOUISE GARLAND (<i>Fine Arts</i>)	University, Va.
HUNGERFORD, ELIZABETH LEE (<i>Household Arts</i>)	New Britain, Conn.
HUNT, MYRA EVELYN (<i>Household Arts</i>)	New Castle, N. Y.
INGLES, NELLIE GRANT (<i>History</i>)	Hobart, N. Y.
JAHN, LORA DOLORES (<i>Mathematics</i>)	Trenton, N. J.
JELLERSON, MARJORIE DWIGHT (<i>Physical Education</i>)	Montclair, N. J.
JENKINS, HELEN (<i>Physical Education</i>)	New York City
JENSEN, ERIK LEONHARD (<i>Latin</i>)	Port Richmond, N. Y.
JOHNSON, ALFRED ANTHONY (<i>English</i>)	Englewood, N. J.
JOHNSON, CAROLINE CURTIS (<i>Physical Education</i>)	Yonkers, N. Y.
JOHNSON, DALLAS DEVELLO (<i>Elementary Supervision</i>)	Seattle, Wash.
JONAS, ESTHER HEINE (<i>Household Arts</i>)	Baltimore, Md.
JUDD, EDWIN F. (<i>Industrial Arts</i>)	Montclair, N. J.
JUDSON, ALICE (<i>Household Arts</i>)	Sandusky, Ohio
JULIAN, MILDRED (<i>Kindergarten Supervision</i>)	Dallas, Texas
KAPS, CLARA E. (<i>Elementary Supervision</i>)	Oshkosh, Wis.
KEARNEY, LEO IGNATIUS (<i>Elementary Supervision</i>)	New York City
KEATOR, MAUD (<i>Elementary Supervision</i>)	High Falls, N. Y.
*KELLEY, ANNIE ELIZABETH (<i>Physical Science</i>)	Brooklyn, N. Y.
KELLY, EDYTHE GRACE (<i>French</i>)	New York City
KENNEDY, MARY (<i>History</i>)	Hoboken, N. J.
KENNEDY, PAUL ALFRED (<i>Elementary Education</i>)	Brooklyn, N. Y.
KENWAY, FLORENCE LOUISE (<i>Household Arts</i>)	Newton, Mass.
KENYON, HARVEY H. (<i>Mathematics</i>)	Poland, N. Y.
KNOX, MARGUERITE (<i>Mathematics</i>)	Glen Ridge, N. J.
LANDRETH, MARY ELIZA (<i>Household Arts</i>)	Schenectady, N. Y.
LARSON, BIRD SOPHIA (<i>Physical Education</i>)	Mora, Minn.
LAUTERBACH, BETTIE (<i>German, French</i>)	Breslau, Germany
LAW, CONSTANCE ELEANOR (<i>Fine Arts</i>)	Mt. Vernon, N. Y.
LEFTWICH, BESSIE CHAMBERS (<i>Household Arts</i>)	Stanton, Va.
LEFTWICH, MABEL WHARTON (<i>Latin, English</i>)	Stanton, Va.
LEROI, OTTILIE (<i>History</i>)	Nashville, Tenn.
LEVY, DAVID MORDECAI (<i>Music</i>)	New York City

*Candidate for A.B. degree.

**Degree only.

* LORENTZ, M. M. (<i>German</i>)	Brooklyn, N. Y.
* LOWNDES, EMILY (<i>Latin</i>)	Mt. Vernon, N. Y.
LUCCOCK, NATALIE (<i>Primary Supervision</i>)	Helena, Mont.
LUNDELL, EMMA AURORE (<i>French</i>)	Poughkeepsie, N. Y.
LYMAN, FLORENCE (<i>Physical Education</i>)	Angusta, Me.
LYONS, SARAH (<i>Elementary Education</i>)	Dedham, Mass.
**McCLURE, ELLA GREENE	Marietta, Ohio
MCCORMACK, JANE R. (<i>Household Arts</i>)	New York City
MCCOWEN, ANNIE MARGARET (<i>Elementary Education</i>)	Forsyth, Ga.
MCCOY, (MRS.) JOHN PETER (<i>Elementary Supervision</i>)	Kingman, Kans.
MACDOWELL, LUCY SHEPARD (<i>Household Arts</i>)	Addison, N. Y.
MCGUIRE, GRACE A. (<i>Household Arts</i>)	Pueblo, Colo.
*McLAUGHLIN, GRACE MARIE (<i>German</i>)	New York City
MCLESTER, FRANCES C. (<i>English</i>)	Nashville, Tenn.
MACKAY, ISABEL (<i>English</i>)	Addison, N. Y.
MALTBY, LOUISE HUMPHREYS (<i>Fine Arts</i>)	Kansas City, Mo.
MATHES, FANNIE PENDEXTER (<i>English</i>)	Dover, N. H.
MATZNER, PAULA AUGUSTA (<i>Physical Education</i>)	New York City
MAYHEW, (MRS.) ZETA C. (<i>English</i>)	Warrensburg, Mo.
MEAD, MARY ELIZABETH (<i>Household Arts</i>)	Cranesville, N. Y.
MEEKER, CHARLES HENRY (<i>Industrial Arts</i>)	New York City
MERRIMAN, WILLIAM HARRIS (<i>Industrial Arts</i>)	Elba, N. Y.
MESTON, IVA ELEANOR (<i>Elementary Supervision</i>)	Saginaw, Mich.
METCALF, MARTHA LOIS (<i>Household Arts</i>)	Indianapolis, Ind.
MILLS, FRANCES ALICE (<i>Biology</i>)	Bristol, Conn.
MONTGOMERY, ALBERTA (<i>Fine Arts</i>)	Decatur, Ill.
MONTGOMERY, EDITH ELIZABETH (<i>Physical Education</i>)	Yonkers, N. Y.
MOORE, PRESLEY FLOYD (<i>Industrial Arts</i>)	Hanford, Calif.
MORRIS, ALEXANDER (<i>Industrial Arts</i>)	New York City
MORRISSEY, SARA JANE (<i>Elementary Supervision</i>)	Rush Lake, Wis.
MORROW, ALBERT THOMAS (<i>Mathematics</i>)	Brooklyn, N. Y.
MORSE, GRACE ESTHER (<i>Fine Arts</i>)	New York City
MOSS, LOUISE B. (<i>Household Arts</i>)	Cheshire, Conn.
MURPHY, MARJORIE (<i>Fine Arts</i>)	Brooklyn, N. Y.
MURPHY, WILLIAM ANTHONY (<i>Industrial Arts</i>)	Brooklyn, N. Y.
MURTLAND, CLEO (<i>Geography</i>)	New York City
NELSEN, GRETCHEN (<i>Household Arts</i>)	Knoxville, Tenn.
NOYES, MAY HEATH (<i>Kindergarten Supervision</i>)	Brookline, Mass.
NUESE, FREIDA CAROLYN (<i>Household Arts</i>)	Buffalo, N. Y.
NUSSBAUM, BENJAMIN (<i>Mathematics</i>)	Pleasantville, N. Y.
OSBORN, ELEANOR (<i>Elementary Supervision</i>)	Mankato, Minn.
OSMOND, EDITH GRIFFITH (<i>Physical Education</i>)	Los Angeles, Calif.
OSTROM, FANNIE BELL (<i>Fine Arts</i>)	Savannah, Ga.
OVERSTREET, (MRS.) ELSIE BURR	New York City
PARK, OLIVE (<i>Physical Education</i>)	Grafton, Ohio
PATRICK, MARY MAUD (<i>English, Elementary Supervision</i>)	New York City
PENDLETON, WERTHA (<i>History</i>)	Bryn Athyn, Pa.
PETERS, ALONZO GAINES (<i>Industrial Arts</i>)	Elizabeth, N. J.
PRATT, MARGARET AKERMAN (<i>Household Arts</i>)	East Orange, N. J.
RAVEN, MAYBELLE (<i>Household Arts</i>)	Bay Shore, L. I.
REED, GRACE (<i>Household Arts</i>)	Brooklyn, N. Y.
REIDY, KATHARINE LOUISE (<i>Elementary Education</i>)	New York City
RHODES, LILY BELL (<i>Fine Arts</i>)	Bergerville, Quebec
RICH, MARY ELIZABETH (<i>Elementary Supervision</i>)	Oshkosh, Wis.

* Candidate for the A.B. degree. ** Degree only.

RICHARDSON, BETTY HINE (<i>Elementary Education</i>)	Athens, Ala.
ROBERTSON, ISABEL (<i>English</i>)	Paterson, N. J.
ROSENDORF, MODESTA FLORENCE (<i>German</i>)	Corvallis, Ore.
ROSS, ALICE (<i>German</i>)	Newark, N. J.
ROSSITER, RUTH FRANCES (<i>Elementary Supervision</i>)	New York City
RUMMELL, KATHERINE (<i>French</i>)	Newark, N. J.
RUTLEDGE, KATHERINE STANTON (<i>Household Arts</i>)	Fort Dodge, Ia.
SARAFIAN, KEVORK AVEDIS (<i>French</i>)	New York City
SAVAGE, TESSIE L. (<i>Household Arts</i>)	Berkeley, Calif.
SAYLES, CLARA MARIE (<i>Household Arts</i>)	Flint, Mich.
SCHARFENSTEIN, GLADYS IRENE (<i>Household Arts</i>)	Cassville, Wis.
SCH EINBACH, MAX HENRY (<i>History</i>)	New York City
SCHIFFER, JOSEPHINE (<i>Household Arts</i>)	Wilmington, Del.
SCHOONOVER, KATHARINE (<i>Household Arts</i>)	Matteawan, N. Y.
SCHOTT, MARTHA (<i>Mathematics</i>)	New York City
SCOTT, ERNEST E. H. (<i>Elementary Supervision</i>)	Salt Lake City, Utah
SELDEN, ELIZABETH S. (<i>Nursing and Health</i>)	East Orange, N. J.
SHARRARD, KATE (<i>Elementary Supervision</i>)	Atchison, Kans.
SHEPPARD, ELIZABETH PADGETT (<i>Biology</i>)	Greenwich, N. J.
SHERER, GENEVIEVE (<i>Kindergarten and Primary Supervision</i>)	Plainfield, N. J.
SIEGEL, FRED (<i>Industrial Arts</i>)	Tottenville, N. Y.
SIMON, HENRY (<i>History</i>)	New York City
SINCLAIR, MARY (<i>Kindergarten</i>)	Fairmount, Minn.
SMEATON, EDNA MARIAN (<i>Household Arts</i>)	Mt. Vernon, N. Y.
SMITH, ETHEL LEWIS (<i>Elementary Education</i>)	Trenton, N. J.
SMITH, FRED JOSEPH (<i>Industrial Arts</i>)	Oswego, N. Y.
SMITH, JANE ADAH (<i>Elementary Education</i>)	Mt. Carmel, Pa.
SNOW, ROSE (<i>Physical Education</i>)	New York City
*SOMERVILLE, RANDOLPH (<i>English</i>)	New York City
SPERLING, HARRY (<i>Physical Education</i>)	Brooklyn, N. Y.
SPIEGEL, DORA ROSENBERG (<i>English</i>)	New York City
SPOHR, WILHELMINA (<i>Household Arts</i>)	Manhattan, Kans.
SPRAGUE, ESTHER LOUISE (<i>Elementary Supervision</i>)	Sauk Centre, Minn.
SPRAGUE, HARRY ALONZO (<i>Elementary Education</i>)	Newark, N. J.
STADLER, BLANCHE F. (<i>Kindergarten Supervision</i>)	New York City
STARKWEATHER, ELIZABETH R. (<i>Kindergarten</i>)	Bloomfield, N. J.
STENQUIST, JOHN L. (<i>Industrial Arts</i>)	Los Angeles, Calif.
STEWART, MYRA (<i>Industrial Arts</i>)	New York City
STRONG, ANNA COWAN (<i>Kindergarten</i>)	Raleigh, N. C.
TAFT, (MRS.) BLANCHE W. (<i>Household Arts</i>)	Whitewater, Wis.
TALL, LIDA LEE (<i>Elementary Supervision</i>)	Baltimore, Md.
TAYLOR, ETHEL ELIZABETH (<i>Household Arts</i>)	New York City
TAYLOR, JOHN LLOYD (<i>Industrial Arts</i>)	Horseheads, N. Y.
TEED, IDA (<i>Fine Arts</i>)	New York City
TISDALE, CLARA L. (<i>Household Arts</i>)	LaCrosse, Wis.
TRACY, HELEN RUTH (<i>Physical Education</i>)	Shelburne, Vt.
TRUMBLE, BESSIE E. (<i>Physical Education</i>)	Saginaw, Mich.
TUCKER, MARION LAVERNE (<i>Household Arts</i>)	Monson, Mass.
*TULLY, MARION (<i>German</i>)	Brooklyn, N. Y.
UPTON, HELEN (<i>Fine Arts</i>)	Bridgeport, Conn.
VAIL, EDNA (<i>History</i>)	Hamden, N. Y.
VAN VLIET, ANITA E. (<i>English</i>)	E. Stroudsburg, Pa.
VAN DUYN, MARGUERITE (<i>Physical Education</i>)	New York City
VAN VORT, RAY VIRGINIA (<i>English</i>)	Richmond, Va.

*Candidate for A.B. degree.

VEVIA, ALICE CATHERINE (<i>Fine Arts</i>)	Muskegon, Mich.
*VON HOPE, GEORGE DOUGLAS, JR. (<i>Physical Science</i>)	Orange, N. J.
VON VOIGTLANDER, MARTHA C. L. (<i>German</i>)	Trenton, N. J.
WALLS, EDNA ELLIOTT (<i>Household Arts</i>)	Girard, Ohio
WARREN, FRANCES MARY (<i>Elementary Education</i>)	Akron, Ohio
WEED, BERTHA ELAINE (<i>Elementary Education</i>)	Wolcott, N. Y.
WEINSTEIN, ABRAHAM ALBERT (<i>Industrial Arts</i>)	New York City
WEINSTEIN, JEANNETTE DOROTHY (<i>Biology</i>)	New York City
WEST, SUSAN FREEMAN (<i>Household Arts</i>)	New York City
**WHITE, GLADYS MACCLEERIE (<i>Household Arts</i>)	Glen Falls, N. Y.
WHITE, LILLIAN (<i>Elementary Supervision</i>)	Brooklyn, N. Y.
WHITEFORD, MARGARET (<i>Household Arts</i>)	New York City
WHITTAKER, (MRS.) ELIZABETH (<i>Household Arts</i>)	Fort Covington, N. Y.
WIENER, THEODORA MARIE (<i>Household Arts</i>)	Newark, N. J.
WILLIAMSON, EDWARD F. (<i>Elementary Supervision</i>)	Greensboro, Pa.
WILLIS, HAZEL MAE (<i>Fine Arts</i>)	Minneapolis, Minn.
WINDUS, M. LENA (<i>Geography, History</i>)	Baltimore, Md.
WINSLOW, EMMA ANNIE (<i>Household Arts</i>)	New York City
WOLFSON, DOROTHY LEONORA (<i>Fine Arts</i>)	New York City
WOOLEY, M. ROBERTA (<i>Kindergarten</i>)	Philadelphia, Pa.
WUCHERER, WILLIAM A. C. (<i>Elementary Supervision</i>)	New York City

JUNIOR B.S.

ABBOTT, JANE MAXWELL (<i>Physical Science</i>)	New York City
ABERNETHY, WINIFRED (<i>Household Arts</i>)	Weeping Waters, Neb.
ABRAMS, JEANETTE FREADA (<i>Elementary Education</i>)	New York City
ACKERMAN, ALPHRA (<i>Household Arts</i>)	Hillsdale, N. J.
ALLEN, E. MARGUERITE (<i>Household Arts</i>)	Mt. Vernon, N. Y.
ALLEN, GRACE AINSLIE (<i>Elementary Education</i>)	Oswego, N. Y.
ALLISON, AMY (<i>Nursing and Health</i>)	St. Thomas, Ontario, Can.
ANDERSON, GRACE (<i>Elementary Supervision</i>)	Brooklyn, N. Y.
ANDRUSS, FLORENCE (<i>Music</i>)	New York City
ANGELL, MERTON A. (<i>Elementary Supervision</i>)	New York City
APRIL, SOL CHARLES (<i>Elementary Education</i>)	Newark, N. J.
ASKAM, LUCY ELIZA (<i>Physical Education</i>)	Great Neck, L. I.
AYER, ELIZABETH PORT (<i>Elementary Education</i>)	Saybrook, Conn.
BACON, EVA MURIEL (<i>Fine Arts</i>)	New York City
BAKER, SARAH LOUISE (<i>Elementary Supervision</i>)	Lansingburg, N. Y.
BALCKE, OLIVE ADELE (<i>Household Arts</i>)	Quincey, Ill.
BARBER, MARION JEANETTE (<i>Household Arts</i>)	Brooklyn, N. Y.
BARBOUR, MARION BRIDGE (<i>Kindergarten Supervision</i>)	Lemoore, Calif.
BARKLEY, ELIZABETH M. (<i>Fine Arts</i>)	West Hebron, N. Y.
BARNABY, CLARA E. (<i>Household Arts</i>)	New Brighton, N. Y.
BARRUS, LENA WAKEFIELD (<i>Household Arts</i>)	Lithia, Mass.
BARTLETT, (MRS.) BARBARA HAECKER (<i>Nursing and Health</i>)	St. Paul, Minn.
BARTLETT, LUCILE AUSTIN (<i>Kindergarten Supervision</i>)	Milwaukee, Wis.
BASH, NELLIE FLORENCE (<i>English</i>)	Toledo, Ohio
BATCHELDER, KATHRYN MARY (<i>Kindergarten</i>)	Sterling, Colo.
BATCHELER, NELLIE (<i>Household Arts</i>)	E. Las Vegas, N. M.
BATES, HANNAH SUSAN (<i>Kindergarten Supervision</i>)	Marquette, Mich.
BEERS, ESTHER EUNICE (<i>Music</i>)	New Rochelle, N. Y.
BEHRENS, ELSIE EMILY (<i>Fine Arts</i>)	Los Angeles, Calif.
BELL, DOROTHY IRWIN (<i>Physical Education</i>)	Minneapolis, Minn.
BENNETT, MILDRED VANVALKENBURG (<i>History</i>)	Brooklyn, N. Y.
BESANCON, BEATRICE ELIZABETH (<i>Mathematics</i>)	W. Hoboken, N. J.

*Candidate for A.B. degree.

**Degree only.

BICKNELL, ANNA (<i>Music</i>).....	Malone, N. Y.
BIRNIE, MARY (<i>Nursing and Health</i>).....	Elizabeth, N. J.
BLAKE, ROSALIA E. (<i>Household Arts</i>).....	Columbus, Ohio
BLAUVELT, WILLIAM HENRY (<i>English</i>).....	New York City
BOARDMAN, ALICE ISABELLE (<i>Household Arts</i>).....	New York City
BOARDMAN, MILDRED ADELAIDE (<i>English</i>).....	Geneseo, N. Y.
BONNEY, ZAIDEE ELIZABETH (<i>Household Arts</i>).....	Tacoma, Wash.
BOOTH, FERN VALENTINE (<i>Fine Arts</i>).....	Chicago, Ill.
BRADLEY, BLANCHE ALMIRA (<i>Household Arts</i>).....	Hillsdale, Mich.
BRAMAN, WALLACE JESSE (<i>Elementary Supervision</i>).....	Altona, N. Y.
BRAUN, FRIEDA ALINE (<i>Elementary Supervision</i>).....	New York City
BRAUS, RAY N. (<i>Household Arts</i>).....	New York City
BRECHT, GRACE ELIZABETH (<i>English</i>).....	Lancaster, Pa.
BRETT, ANNA (<i>English</i>).....	Albany, N. Y.
BRETT, EDITH M. (<i>English</i>).....	Albany, N. Y.
BRIDGE, SARAH HELEN (<i>Household Arts</i>).....	Glen Ridge, N. J.
BROWN, CORINNE (<i>Kindergarten Supervision</i>).....	Chicago, Ill.
BUCHANAN, ELSIE AGNES (<i>Mathematics</i>).....	Fort Covington, N. Y.
BULL, PHOEBE (<i>Household Arts</i>).....	Chester, N. Y.
BURNS, ROBERT LEO (<i>Industrial Arts</i>).....	Cliffside, N. J.
BYRNE, SUSAN LYDIA (<i>Industrial Arts</i>).....	Montclair, N. J.
CALLEN, SARA LOUISE (<i>Mathematics</i>).....	Selma, Ala.
CAMPBELL, BLANCHE E. (<i>Elementary Education</i>).....	New York City
CAMPBELL, EMMA E. (<i>Elementary Supervision</i>).....	Goffstown, N. H.
CAMPBELL, (MRS.) MINNIE (<i>Primary Supervision</i>).....	Kalamazoo, Mich.
CAMPER, (MRS.) MARJORIE PRICE (<i>Household Arts</i>).....	Florence, Ala.
CANON, HELEN (<i>Household Arts</i>).....	Grand Junction, Colo.
CARLETON, ALICE FRANCES ELIZABETH (<i>Household Arts</i>).....	San Gabriel, Calif.
CARY, MARIE (<i>Physical Education</i>).....	Madison, Wis.
CAULFIELD, GERTRUDE ROSE (<i>Fine Arts</i>).....	New York City
CHACE, EDITH PITT (<i>Household Arts</i>).....	Pittsburgh, Pa.
CHAPLIN, MAUDE FRANCES (<i>Household Arts</i>).....	Rock Hill, S. C.
CHILD, MARGUERITE BEATRICE (<i>English</i>).....	Oneonta, N. Y.
CHINN, CHARLES R. (<i>Elementary Supervision</i>).....	Concord, Neb.
CLARK, ALICE EDITH (<i>Household Arts</i>).....	River Falls, Wis.
CLARK, IVA M. (<i>Household Arts</i>).....	Perryville, Mo.
CLAXTON, EDITH (<i>Household Arts</i>).....	Paterson, N. J.
CLEMENT, ANNA SUTTON (<i>Household Arts</i>).....	Oak Summit, N. Y.
CLOSS, (MRS.) MARY FARNUM (<i>English</i>).....	Syracuse, N. Y.
COLLOTY, HELEN MARIE (<i>Fine Arts</i>).....	New York City
COLVIN, JESSIE M. (<i>Household Arts</i>).....	Brooklyn, N. Y.
COOKEY, BESSIE L. (<i>Geography</i>).....	Manasquan, N. J.
COOMBS, HELEN (<i>Household Arts</i>).....	Keokuk, Ia.
COOMBS, HELEN COPELAND (<i>Household Arts</i>).....	Yonkers, N. Y.
COONS, MARTHA MARIE (<i>Household Arts</i>).....	Manhattan, Kans.
CORNELL, MARGARET (<i>Household Arts</i>).....	Elnora, Ind.
CRABBS, LELAH MAE (<i>Kindergarten Supervision</i>).....	Toledo, Ohio
CRAGIN, MIRIAM WILLARD (<i>Kindergarten</i>).....	New York City
CROSBY, ZANA ELIZABETH (<i>English</i>).....	Chicago, Ill.
CUMMING, LUCY JEAN (<i>Household Arts</i>).....	Lyn, Ontario, Can.
DAVIS, MAUDE M. (<i>Elementary Education</i>).....	Kalamazoo, Mich.
DAVOL, HELEN F. (<i>History</i>).....	Winter Hill, Mass.
DEECKE, WILHELMINA (<i>German</i>).....	Utica, N. Y.
DE GOLYER, CHARLOTTE (<i>Household Arts</i>).....	Evanston, Ill.
DELORIA, ELLA CARA (<i>Physical Education</i>).....	Wakpala, S. D.

DEMAREST, ALBERT TERHUNE (<i>Industrial Arts</i>)	Paterson, N. J.
DEMAREST, WILBUR ASH (<i>Industrial Arts</i>)	Paterson, N. J.
DEMING, AGATHE (<i>Household Arts</i>)	New York City
DICKSON, CARRIE ALICIA (<i>Household Arts</i>)	New Orleans, La.
DICKSON, LOUIE ELEANOR (<i>Household Arts</i>)	Jersey City, N. J.
DODDE, DOROTHY (<i>Physical Education</i>)	New York City
DREEBEN, ROSE (<i>Music</i>)	New York City
DREVENSTEDT, AMY (<i>Fine Arts</i>)	Buffalo, N. Y.
DUNN, FANNIE WYCHE (<i>Elementary Supervision</i>)	Farmville, Va.
DURKAN, MARY CAROLINE (<i>English</i>)	Watertown, N. Y.
DURYEA, MADELINE SARAH (<i>History</i>)	Farmingdale, N. Y.
DUSTIN, GERTRUDE OLIVE LORRAINE (<i>Household Arts</i>)	Bridgeport, Conn.
DUTCHER, MYRA (<i>Household Arts</i>)	Brooklyn, N. Y.
EASTERLING, ALICE (<i>Fine Arts</i>)	Washington, D. C.
EHLERS, JENNIE DORTHEA (<i>Mathematics</i>)	New York City
EHRENREICH, JACOB DAVID (<i>History</i>)	New York City
EKLUND, HJÖRDIS I. M. (<i>Nursing and Health</i>)	Charlestown, Mass.
ELLENBORG, LEWIS KATZEN (<i>Physical Education</i>)	Brooklyn, N. Y.
EMBRY, (MRS.) MARGARET CECIL (<i>Household Arts</i>)	Danville, Ky.
ERDMAN, ANNA BUTTON (<i>Physical Education</i>)	Tarrytown, N. Y.
EVERSON, ADELAIDE (<i>Fine Arts</i>)	Pittsburgh, Pa.
FAIR, ETHEL (<i>Elementary Education</i>)	Framingham, Mass.
FAIRFIELD, MARGARET B. (<i>Household Arts</i>)	East Orange, N. J.
FARRELL, LOUISE (<i>Household Arts</i>)	Oswego, N. Y.
FARWELL, EMMA LOUISE (<i>Household Arts</i>)	Holley, N. Y.
FAY, HAZEL (<i>Music</i>)	Long Beach, Cal.
FELLOWS, ABBIE MABEL (<i>Mathematics</i>)	Hebron, Ill.
FICHTHORN, EMMA ESTELLA (<i>Mathematics</i>)	Reading, Pa.
FINNEY, HELEN BROWNING (<i>Music</i>)	Newark, N. J.
FISBECK, FRANCES CHARLOTTE (<i>Mathematics</i>)	Ridgefield Park, N. J.
FISHBACK, ELVIN HOLT (<i>Elementary Supervision</i>)	Muncie, Ind.
FISHKIN, JOSEPH (<i>Industrial Arts</i>)	New York City
FLINT, GEORGE C. (<i>Music</i>)	Little Falls, N. J.
FLYNN, MABEL HOSKIN (<i>Household Arts</i>)	Kalamazoo, Mich.
FORSSEN, HELEN ELIZABETH (<i>History</i>)	Brooklyn, N. Y.
FRAME, ELSA LOUISE (<i>Household Arts</i>)	Toledo, Ohio
FRANK, GEORGE (<i>Industrial Arts</i>)	Newark, N. J.
FRANKLIN, KATE MANN (<i>Fine Arts</i>)	Flushing, N. Y.
FRENCH, LAURA HARRIET (<i>Household Arts</i>)	Malone, N. Y.
FULLGRAFF, MAY ALDEN (<i>Fine Arts</i>)	New York City
GARDNER, STELLA OPHELIA (<i>Mathematics</i>)	Locust Grove, Ga.
GARLICK, EDITH SHAW (<i>Elementary Supervision</i>)	Paterson, N. J.
GARRETT, HAZEL L. (<i>Household Arts</i>)	Spokane, Wash.
GARRETT, JEANNETTE (<i>Household Arts</i>)	Wellington, Ohio.
GERSTLE, CARRIE (<i>Household Arts</i>)	New York City
GESSWEIN, EDWARD (<i>Industrial Arts</i>)	East Orange, N. J.
GIBBS, BERTRAND FRANKLIN (<i>Elementary Supervision</i>)	Fredonia, N. Y.
GILLETT, GRACE PATTON (<i>Household Arts</i>)	Canandaigua, N. Y.
GILLETT, HARRIET MAY (<i>Nursing and Health</i>)	Southwick, Mass.
GILLET, HILDA (<i>Geography</i>)	Baltimore, Md.
GINSBERG, ISIDORE (<i>Mathematics</i>)	New York City
GLÜCK, REBECCA (<i>English</i>)	New York City
GODFREY, VIOLA MORRIS (<i>Household Arts</i>)	Oregon City, Ore.
GOLDMANN, JOHANNA (<i>German</i>)	New York City
GOODMAN, ISRAEL (<i>Mathematics</i>)	Brooklyn, N. Y.

GORDON, INEZ LOUISE (<i>Kindergarten Supervision</i>)	Patchogue, N. Y.
GOTT, AMY RUGGLES (<i>Household Arts</i>)	Virozua, Wis.
GRANDIN, FRANCES (<i>Latin</i>)	New York City
GRANT, HERBERT (<i>Physical Science</i>)	New York City
GRAY, JOHN NEWTON (<i>Physical Science</i>)	Brooklyn, N. Y.
GREEN, ETHEL MAY (<i>Industrial Arts</i>)	Passaic, N. J.
GREEN, JENNY LIND (<i>Elementary Supervision</i>)	Norris City, Ill.
GREENBURG, IRA (<i>History</i>)	New York City
GREENWALD, ARTHUR (<i>Industrial Arts</i>)	Richmond Hill, N. Y.
GRIGGS, GERTRUDE STRYKER (<i>History</i>)	Belle Meade, N. J.
GRISCOM, BESSIE (<i>Household Arts</i>)	Reading, Pa.
GUINEY, DAN F. (<i>Mathematics</i>)	Potsdam, N. Y.
HADDOW, BLANCHE (<i>Household Arts</i>)	Bainbridge, N. Y.
HAMILTON, JOAN (<i>Household Arts</i>)	Attwood, Ontario, Can.
HANCOCK, M. INA (<i>Household Arts</i>)	Bayonne, N. J.
HARMON, SADIE EMORY (<i>Biology</i>)	Wachapreague, Va.
HARRELSON, HELEN (<i>Primary Supervision</i>)	Belton, Mo.
HARRISON, FLORENCE LOUISE (<i>Fine Arts</i>)	New York City
HART, LETITIA CANDACE (<i>English</i>)	Lincoln, Neb.
HART, M. MAUDE (<i>English</i>)	New Brunswick, N. J.
HARTMAN, ROSE CATHARINE (<i>Latin</i>)	Reading Pa.
HASBROUCK, MARY LYDIA (<i>Fine Arts</i>)	Middletown, N. Y.
HASTY, BERNICE OLIVER (<i>Household Arts</i>)	Lansing, Mich.
HERBERT, EDGAR WILLIAM (<i>Physical Education</i>)	New York City
HEROLD, FLORA (<i>Household Arts</i>)	Shreveport, La.
HERRICK, ZADA ESTHER (<i>Household Arts</i>)	Saratoga Springs, N. Y.
HESS, BLANCHE (<i>Kindergarten</i>)	Fredonia, Kans.
HESELBACH, HENRY V. (<i>Physical Science</i>)	New York City
HIESEL, JOSEPHINE (<i>History</i>)	White Plains, N. Y.
HILL, LOUISE CARTER (<i>Physical Education</i>)	Minneapolis, Minn.
HINDS, E. ANNETTE (<i>Elementary Supervision</i>)	Worcester, Mass.
HOAK, MARY ELEANOR (<i>Primary Supervision</i>)	Lancaster, Pa.
HOARD, MARJORY (<i>Kindergarten</i>)	Rochester, N. Y.
HOFFMAN, ELLA (<i>Household Arts</i>)	Maplewood, Mo.
HOLLISTER, G. MAY (<i>Nursing and Health</i>)	Orange, N. J.
HOLMES, MARGARET HAMERIK (<i>History</i>)	Baltimore, Md.
HOLZ, MARGARET BRUNHILDE (<i>German</i>) (<i>French</i>)	New York City
HOPE, DOROTHY M. (<i>Household Arts</i>)	Madison, N. J.
HOUGH, MAUDE AGNES (<i>Elementary Supervision</i>)	Litchfield, Conn.
HOUSE, FLORENCE E. (<i>Industrial Arts</i>)	Salonica, Greece
HSU, EMILY TUANKIEN (<i>Elementary Education</i>)	Forchow, China
HUME, HELEN IRÈNE (<i>Kindergarten</i>)	Corunna, Mich.
HUNT, DOMINIC P. (<i>History</i>)	New York City
HUNT, EMMA REBECCA (<i>French</i>)	New York City
IWASAWA, TOKI (<i>English</i>)	Haverford, Pa.
JACKSON, DUDLEY (<i>Industrial Arts</i>)	Logansport, Ind.
JOHNSON, ALMA GRACE (<i>Household Arts</i>)	Frankfort, Ind.
JONES, HELEN EVELYN (<i>Music</i>)	Oradell, N. J.
KALLIGAN, THOMAS JOSEPH (<i>Mathematics</i>)	Oneonta, N. Y.
KAPLAN, FRANCES (<i>Fine Arts</i>)	New York City
KAPS, CLARA E. (<i>Elementary Supervision</i>)	Oshkosh, Wis.
KEITH, MARY CATHERINE (<i>English</i>)	New York City
KELLY, JENNIE ELIZAH (<i>Household Arts</i>)	Sullivan, Ind.
KEMP, ANNIE BRUNNER (<i>Kindergarten</i>)	Frederick, Md.
KEYS, ELIZABETH M. (<i>Kindergarten</i>)	Yonkers, N. Y.

KIEFFER, HANNAH AMANDA (<i>Elementary Supervision</i>)	Millersburg, Pa.
KIERMEIER, ANNA B. (<i>German</i>)	Deerfield, N. J.
KIPP, RALPH P. (<i>Industrial Arts</i>)	Ossining, N. Y.
KLING, DELIA CHRISTINE (<i>Kindergarten Supervision</i>)	Brooklyn, N. Y.
KNIGHT, LOUISE D. (<i>Household Arts</i>)	Kansas City, Mo.
KOLSHORN, AGNES MARIE (<i>Household Arts</i>)	Red Wing, Minn.
KREYKENBOHM, CAROLINE (<i>German</i>)	Mt. Vernon, N. Y.
KUBIE, DOROTHY L. (<i>English</i>)	Far Rockaway, N. Y.
KYSOR, MABEL (<i>Household Arts</i>)	Newark, N. J.
LAM, IN CHEUNG (<i>Elementary Supervision</i>)	Canton, China
LAMBERT, JULIET (<i>Elementary Education</i>)	New York City
LAPHAM, MARY DIANTHA (<i>Elementary Education</i>)	Plattsburg, N. Y.
LAWTON, WILHELMINA ALIDA (<i>Household Arts</i>)	New York City
LEFLER, MARK ROCKWELL (<i>Elementary Supervision</i>)	Perth Amboy, N. J.
LEONARD, BENJAMIN FAIRBANKS (<i>History</i>)	Newark, N. J.
LEUCH, ELSA ANNA (<i>German</i>)	Brooklyn, N. Y.
LEWIS, EFFIE L. (<i>English</i>)	Brooklyn, N. Y.
LICHT, ISIDORE JACOB (<i>English</i>)	Brooklyn, N. Y.
LIEBERMANN, ELSE (<i>German</i>)	East Orange, N. J.
LITTLE, CARRIE (<i>Household Arts</i>)	Paterson, N. J.
LIVERMORE, MARCIA J. (<i>Household Arts</i>)	New Rochelle, N. Y.
LOBDELL, RUTH BARKER (<i>Elementary Education</i>)	Plattsburg, N. Y.
LOBSENZ, MARGARET (<i>English</i>)	New York City
LONG, BENJAMIN FRANKLIN (<i>Elementary Education</i>)	Englewood, N. J.
LOUDON, BLANCHE (<i>English</i>)	Moorhead, Minn.
LUFT, HARRY LEOPOLD (<i>Physical Education</i>)	Brooklyn, N. Y.
LYON, LAURA LUCY (<i>Household Arts</i>)	Guelph, Ontario, Can.
LYONS, HELEN FRANCES (<i>English</i>)	Manchester, N. H.
MCCARTHY, AGNES ELIZABETH (<i>Household Arts</i>)	Buffalo, N. Y.
MCDERMOTT, MARY (<i>History</i>)	Bolivar, N. Y.
MCEVOY, LOUISE (<i>Elementary Education</i>)	Athens, Ga.
MCHENRY, MARY BELLE (<i>English</i>)	Newark, N. J.
McKEAN, HERBERT ALLEN (<i>Industrial Arts</i>)	Normal, Ill.
McKELVEY, WILLIAM THOMPSON (<i>Elementary Supervision</i>)	Erie, Pa.
MACKIRDY, EDITH (<i>Elementary Supervision</i>)	Brooklyn, N. Y.
McKNIGHT, THERON LINCOLN (<i>Mathematics</i>)	Central Valley, N. Y.
MACMULLEN, HELEN (<i>Fine Arts</i>)	Riverdale, N. Y.
MANATT, FAITH (<i>Kindergarten Supervision</i>)	Providence, R. I.
MARKWELL, FANNIE PERELES (<i>German</i>)	New York City
MARTIN, KATE KING (<i>Household Arts</i>)	Minneapolis, Minn.
MARTIN, MILDRED GRACE (<i>Household Arts</i>)	Oakfield, N. Y.
MASON, APPLETON A. (<i>Physical Education</i>)	New York City
MASON, BLANCHE G. (<i>Household Arts</i>)	Valley City, N. D.
MASSE, EDITH MARION (<i>Household Arts</i>)	Milwaukee, Wis.
MEACHAM, LUCY HELEN (<i>Elementary Supervision</i>)	Washington, Ia.
MEADOWS, ADA GEORGENE (<i>Household Arts</i>)	Ipswich, S. D.
MERCADO, LUCILA (<i>Fine Arts</i>)	Juana Diaz, Porto Rico
MESTON, HELEN (<i>Household Arts</i>)	Hastings, Neb.
MEYER, WILHELMINA (<i>Kindergarten</i>)	Lexington, Mo.
MINER, LOUIE MAY (<i>English</i>)	Bristolville, Ohio
MOHLER, M. LOUISE (<i>Music</i>)	Van Wert, Ohio
MONTRAY, MADELAINE (<i>English</i>)	New York City
MOOK, FRANCES JOSEPHINE (<i>Household Arts</i>)	Webster Grove, Mo.
MOORE, ANNA ELIZABETH (<i>English</i>)	Dover, N. J.
MORRELL, JULIA LOUISE (<i>Elementary Supervision</i>)	Cortland, N. Y.

MORRELL, MARJORY ELIZABETH (<i>Physical Science</i>).....	Brooklyn, N. Y.
MORRIS, BLANCHE OLIVIA (<i>Elementary Supervision</i>).....	Oxford, Ohio
MORRIS, MYLITTA MAE (<i>Primary Supervision</i>).....	Amboy, Ill.
MORRIS, MYRLA JONES (<i>Elementary Education</i>).....	Florence, Ala.
MORRO, SAMUEL E. (<i>Industrial Arts</i>).....	Brooklyn, N. Y.
MOSS, ELIZABETH (<i>Kindergarten Supervision</i>).....	Kansas City, Mo.
MUEHLECK, LUCY ELIZABETH (<i>German</i>).....	Weehawken, N. J.
MÜLLER, MAY KATHRYN (<i>Household Arts</i>).....	New York City
MULLER, WALTER J. (<i>German</i>).....	Brooklyn, N. Y.
MUNRO, MARGARET ISABEL (<i>Household Arts</i>).....	Bayonne, N. J.
MUNRO, SIBYL H. (<i>Elementary Supervision</i>).....	New York City
MURPHY, ANNA BLANCHE (<i>English</i>).....	Manchester, N. H.
MURPHY, GEORGIA B. (<i>Kindergarten Supervision</i>).....	Jamestown, N. Y.
NEER, ANNE ENGLISH (<i>Primary Supervision</i>).....	Perth Amboy, N. J.
NICHOLS, LILLIAN ELBRIDGE (<i>Elementary Supervision</i>).....	Jesup, Ga.
NORTHROP, ELIZABETH (<i>Geography</i>).....	Clifton, N. J.
NORTHWOOD, LOUISE (<i>Mathematics</i>).....	Trenton, N. J.
NORTON, ALMA MARGARET (<i>Music</i>).....	Spring Valley, Ill.
NORTON, CHARLOTTE BOND (<i>Kindergarten Supervision</i>).....	Madison, Wis.
OSBORN, LAURA (<i>Physical Education</i>).....	New York City
OSBORNE, MARY HARROWER (<i>Elementary Education</i>).....	New York City
OSBURN, MARGARET MEAD (<i>Household Arts</i>).....	Newport, Ore.
OSTERHOLM, CLAUS A. (<i>House Decoration</i>).....	Brooklyn, N. Y.
OSTERHOLM, LISA (<i>Industrial Arts</i>).....	Ann Arbor, Mich.
PALMER, FLORENCE L. (<i>Primary Supervision</i>).....	Oneonta, N. Y.
PATTERSON, KATHARINE (<i>Household Arts</i>).....	Tarrytown, N. Y.
PAULSEN, EDGAR PETER (<i>Elementary Education</i>).....	Westbrook, Me.
PAYNE, NORA BURKS (<i>English</i>).....	Lynchburg, Va.
PEACH, ANNA HARRIET (<i>Household Arts</i>).....	Newark, N. J.
PECK, EVELYN (<i>Physical Science</i>).....	Susquehanna, Pa.
PENDERY, ALICE EUNICE (<i>Physical Education</i>).....	Los Angeles, Calif.
PENNOVER, MARY ELIZABETH (<i>Physical Education</i>).....	Culpeper, Va.
PENROSE, ALICE WRIGHT (<i>Household Arts</i>).....	Salem, Ohio.
PERRY, CLARA LOUISE (<i>Household Arts</i>).....	Jefferson, Ohio
PETERS, RUTH (<i>Fine Arts</i>).....	New Britain, Conn.
PHELPS, ALICE ELIZABETH (<i>Elementary Supervision</i>).....	Warehouse Point, Conn.
PIERPONT, JULIA H. (<i>Household Arts</i>).....	White Plains, N. Y.
PILLSBURY, MARY E. (<i>Household Arts</i>).....	New York City
POLLEY, ALTA ALBERTSEN (<i>Music</i>).....	New York City
POST, SARA MARY (<i>English</i>).....	Passaic, N. J.
PRESTON, MARY FLORENCE (<i>Household Arts</i>).....	Bristol, Va.
PRICE, MINNIE (<i>Household Arts</i>).....	Portland, Ore.
PUDDINGTON, AGNES MARGARET (<i>Household Arts</i>).....	Madison, N. J.
RABINOWITZ, CHISSAY (<i>Mathematics</i>).....	New York City
RABY, MARGARET MARY (<i>English</i>).....	Oswego, N. Y.
RADLEY, HERMON C. (<i>Elementary Supervision</i>).....	Port Jervis, N. Y.
RAGAN, MARY ELLEN (<i>Fine Arts</i>).....	La Gro, Ind.
REEVES, GRACE GARDNER (<i>Household Arts</i>).....	Redlands, Calif.
REGER, RICHARD (<i>Industrial Arts</i>).....	Clifton, N. J.
RENTSCHLER, GUY H. (<i>Elementary Education</i>).....	Dunellen, N. J.
RIBBLE, MARGARET DAVIS (<i>English</i>).....	Washington, N. J.
RICHARDS, HAROLD DUDLEY (<i>Industrial Arts</i>).....	Dover, N. J.
RICHARDSON, CHARLOTTE BAXTER (<i>Industrial Arts</i>).....	Ridgewood, N. J.
RICHTER, ANNA (<i>German</i>).....	Bayonne, N. J.
RITENOUR, SUSANNA A. (<i>Fine Arts</i>).....	Meadville, Pa.

RITTER, HARRY (<i>Mathematics</i>)	Brooklyn, N. Y.
ROBERTS, ELIZABETH (<i>Household Arts</i>)	Rockford, Ill.
RODMAN, ELIZABETH SELDEN (<i>Kindergarten</i>)	Orange, N. J.
ROGERS, HAZEL MAY (<i>French</i>)	New York City
ROOT, INA LEONETTE (<i>Elementary Supervision</i>)	Brockport, N. Y.
ROSS, (Mrs.) LAURA L. HURD (<i>Mathematics</i>)	Paris, Mo.
ROTHENSTEIN, JACOB ABRAHAM (<i>Mathematics</i>)	Brooklyn, N. Y.
SAUNDERS, EVELYN (<i>History</i>)	Brooklyn, N. Y.
SCHAEFER, NORMA (<i>Mathematics</i>)	Buffalo, N. Y.
SCHLOEMON, LILLIE (<i>Household Arts</i>)	Gatesville, Tex.
SCHNEIDER, ELIZABETH TEUTONIA (<i>History</i>)	Hoboken, N. J.
SCHOENHALS, MARIE KATHERINE (<i>Elementary Supervision</i>)	Howell, Mich.
SCHUYLER, ELEANOR LIVINGSTON (<i>Fine Arts</i>)	Ridgewood, N. J.
SCHWAN, ROBERT C. (<i>Secondary Education</i>)	Fredonia, N. Y.
SECHLER, ANNA MAY (<i>Mathematics</i>)	Portland, Ore.
SHAW, AMY IRENE (<i>English</i>)	Ormond, Fla.
SHEEHAN, PAUL SYLVESTER (<i>History</i>)	Fairhaven, Mass.
SHELDON, (Mrs.) EUNICE L. WHITING (<i>Mathematics</i>)	Mamaroneck, N. Y.
SHERMAN, HANNAH (<i>Household Arts</i>)	Yonkers, N. Y.
SHUPP, DOROTHEA LOUISE (<i>Kindergarten</i>)	Philadelphia, Pa.
SHUSTER, CARL NATHANIEL (<i>Mathematics</i>)	Milford, N. J.
SLATTERY, ELIZABETH MARGARET (<i>Household Arts</i>)	Troy, N. Y.
SLIGHT, JEANIE PATERSON (<i>Kindergarten Supervision</i>)	Oldham, Eng.
SMEETON, CARRIE AMELIA (<i>Physical Education</i>)	Jersey City, N. J.
SMITH, GLADYS HOLDEN (<i>Music</i>)	Kingston, Pa.
SMITH, HELEN FLORENCE (<i>Fine Arts</i>)	Montclair, N. J.
SMITH, HELEN MELISSA (<i>Music</i>)	Kingston, Pa.
SMITH, IDA M. (<i>Elementary Education</i>)	Newark, N. J.
SMITH, LEIGHTON VETTER (<i>Fine Arts</i>)	Phillipsburg, N. J.
SMITH, LEWIS GARRISON (<i>Physical Science</i>)	Rochester, N. Y.
SOLENDER, SAMUEL SOLOMON (<i>Industrial Arts</i>)	Pleasantville, N. Y.
SOUTH, CHRISTINE NORAD (<i>Household Arts</i>)	Greenwood, S. C.
SPENSLEY, NELLE V. (<i>Household Arts</i>)	Mineral Point, Wis.
STANFORD, DAISY M. (<i>Household Arts</i>)	Knoxboro, N. Y.
STANTON, EDNA MACY (<i>Elementary Supervision</i>)	Germantown, Pa.
STARR, SARAH (<i>Household Arts</i>)	New York City
STERRETT, MARY C. (<i>Elementary Supervision</i>)	Decatur, Ill.
STEWART, MYRA	New York City
STILLER, HERMAN (<i>Industrial Arts</i>)	New York City
STOCKWELL, ANN B. (<i>Industrial Arts</i>)	Stamford, Conn.
SUMMY, KATHERINE STRONG (<i>Fine Arts</i>)	Washington, D. C.
SWEET, MARGARET (<i>Household Arts</i>)	Elbridge, N. Y.
SWISHER, AMY MARGARET (<i>Fine Arts</i>)	Delaware, Ohio
TALADA, MABEL (<i>Industrial Arts</i>)	Rhinebeck, N. Y.
TAPIA, ALBJENDRO (<i>Mathematics</i>)	Panama, Panama
TAPPAN, NELLIE MAY (<i>Household Arts</i>)	White Plains, Ga.
TAYLOR, MARY ANNA (<i>Household Arts</i>)	New York City
TEMPLE, JANE (<i>Household Arts</i>)	Pages Mills, S. C.
THOMAS, ANITA (<i>French</i>)	Albuquerque, N. M.
THURSTON, FLORA MARTHA (<i>Household Arts</i>)	Toledo, Ohio
TIFFANY, EDNA PARRISH (<i>Kindergarten Supervision</i>)	Nicholson, Pa.
TITUS, RUTH MINARD (<i>Household Arts</i>)	St. Thomas, Ontario, Can.
TOWSE, ANNA BERNEDETTA (<i>English</i>)	Oswego, N. Y.
TREDWELL, HENRIETTA (<i>Household Arts</i>)	Chicago, Ill.
TRIMBLE, PRUDENCE (<i>Elementary Supervision</i>)	Monongahela, Pa.

VANUXEM, LOUISA (<i>Household Arts</i>)	Newark, N. J.
VOSBURG, LEILA (<i>Household Arts</i>)	Beacon, N. Y.
WALKER, LENORA E. (<i>Latin</i>)	Williamsville, N. Y.
WALTHER, THEDA HELEN (<i>Fine Arts</i>)	New York City
WARD, INEZ (<i>Household Arts</i>)	Pelzer, S. C.
WEAR, JESSIE (<i>Elementary Supervision</i>)	Helena, Mont.
WEBER, EDNA MAY (<i>History</i>)	Flushing, N. Y.
WEIN, SOPHIE ANNA (<i>Fine Arts</i>)	New York City
WELLES, LOUISE MAUD (<i>Elementary Supervision</i>)	New York City
WELLS, LOUISE (<i>Physical Education</i>)	Augusta, Ga.
WELSH, CLARA IVY (<i>English</i>)	Pittsburgh, Pa.
WESSNER, ANNA ESSIE (<i>Household Arts</i>)	Allentown, Pa.
WEST, LOUIS FRANCES (<i>Music</i>)	Brooklyn, N. Y.
WESTFALL, MARTHA (<i>Household Arts</i>)	Delaware, Ohio
WHITMAN, ADELAIDE (<i>Household Arts</i>)	New York City
WHITNEY, ADA LOUISE (<i>Household Arts</i>)	Holland, N. Y.
WIKANDER, HELGA AGNES (<i>History</i>)	Honolulu, T. H.
WILLET, GERALDINE (<i>Physical Education</i>)	White Plains, N. Y.
WILLIAMS, IRMA NICHOLSON (<i>Fine Arts</i>)	Jacksonville, Fla.
WILLIAMS, LULU MAUD (<i>Household Arts</i>)	Rolling Prairie, Ind.
WILLIAMSON, MABEL HEATON (<i>Household Arts</i>)	Poughkeepsie, N. Y.
WILSON, EDITH (<i>Household Arts</i>)	Spokane, Wash.
WILSON, (MRS.) EMILY NEWCOMB (<i>Kindergarten</i>)	New York City
WINDOLPH, MABEL CALHOUN (<i>Kindergarten Supervision</i>)	Norwich, N. Y.
WINTERS, JET CORINE (<i>Household Arts</i>)	Fort Worth, Tex.
WORKMAN, ANNIE JOSEPHINE (<i>Kindergarten Supervision</i>)	Yarmouth Gardens, Ont., Can.
WRIGHT, CATHERINE DELAFIELD (<i>Elementary Education</i>)	New York City
WU, YOEH-NGOD (<i>Kindergarten Supervision</i>)	Shanghai, China
ZUMWALT, DOROTHY (<i>Household Arts</i>)	Tulare, Calif.

UNCLASSIFIED UNDERGRADUATES

ALCORN, MARY EDITH	Port Chester, N. Y.
ANDERSON, MINNIE A.	Valley City, N. D.
ANGLE, BERTHA	Rye, N. Y.
ARMSTRONG, EDITH MARIAN	Scranton, Pa.
BALLOU, FANNIE LILLIAN	Wheaton, Ill.
BAMBERGER, FLORENCE EILAN	Baltimore, Md.
BANTA, ETHEL MARGARET	Lamoin, Iowa
BARD, HENRIETTA ONDERDONK	East Pleasantville, N. Y.
BARTHOLOMEW, REBECCA	Valparaiso, Ind.
BARTS, ADELAIDE ANNA	Virgil, Ill.
BATTCKOCK, G. J.	Yonkers, N. Y.
BEAKES, DOROTHY EMELINE	New York City
BEBEE, E. SOPHIA	Manchester Centre, Vt.
BECKERS, CAROLINE ANNA	Hoboken, N. J.
BERCHEL, EDITH EMMA	Wayne, Neb.
BELLOWS, ANNIE CELESTIA	Orlando, Fla.
BEVERIDGE, AGNES	Mt. Vernon, N. Y.
BIETSCH, EVALYN FREDERIKA	Chambersburg, Pa.
BIGGART, JULIA ROSSIER	Bloomfield, N. J.
BLACKMORE, BEULAH	Vassar, Mich.
BLIVEN, M. CAROLINE	Bellvale, N. Y.
BLODGETT, GERTRUDE	Columbia Station, Ohio
BLUMENTHAL, FRANCES	New York City
BOHM, FLORENCE	New York City
BOOTHE, STELLA	Spokane, Wash.

BOWMAN, MATTIE M.....	Paterson, N. J.
BOYD, JENNIE SELFIDGE.....	Montvale, N. J.
BRADY, (MRS.) ELISABETH.....	Sitka, Alaska
BRAINERD, FRANCES J.....	Monson, Mass.
BRITTINGHAM, ADA S.....	Mt. Vernon, N. Y.
BRYANT, ANNIE BISSELL.....	Springfield, Mass.
BUARQUE, MARIA.....	S. Paulo, Brazil
BUMBAUGH, ETHEL.....	Santa Rosa, Calif.
BURCH, DORTHULA ANN.....	Hartwick, N. Y.
BURDICK, MAIDA C.....	Stamford, Conn.
BURGOYNE, CLARA ETHEL.....	St. Catharines, Ontario, Can.
BURKE, ANNIE F.....	Cleveland, Ohio
BURKE, EMMA JANE.....	Bismarck, N. D.
BURKS, CARRIE E. M.....	Edmond, Okla.
BURNETT, ETHEL FRANCES.....	New York City
CAMPBELL, NETTIE LAVONIA.....	San Francisco, Calif.
CANTOR, ISAAC JACOB.....	New York City
CARPENTER, LAURA E.....	New York City
CARR, ANGIE LOTTA.....	La Salle, Ill.
CARTER, WILLIAM ANDREW.....	Richmond Hill, N. Y.
CHAPPELL, ELEANOR.....	Brooklyn, N. Y.
CHAPPELL, JANE.....	Philadelphia, Pa.
CLARK, EDITH RACHEL.....	Yonkers, N. Y.
CLARK, GEORGIA.....	Eldred, N. Y.
CLARK, JOSEPHINE BOWMAN.....	Fallsington, Pa.
COBB, ETHEL F.....	Provincetown, Mass.
COBB, LEILA M.....	Goldsboro, N. C.
COLE, MARGARET HELEN.....	Tropico, Calif.
COLE, (MRS.) ROSE.....	Denver, Colo.
COLLINS, MARY ROSE.....	New York City
COURSEY, ROSE T.....	Centreville, Md.
CROZIER, ALICE LOUISE.....	Lewiston, Idaho
DAHLBERG, HATTY R.....	Stanley, Wis.
DAPPERT, NORA ETHEL.....	Taylorville, Ill.
DEDERICK, JAMES HENRY.....	Newburgh, N. Y.
DESMOND, FLORENCE (<i>Fine Arts</i>).....	Oradell, N. J.
DEYSHER, ETHEL A.....	Reading, Pa.
DE ZELLER, MAY PEARL.....	New York City
DICKERSON, HARRIET.....	Denville, N. J.
DONALDSON, FLOY.....	Bemidji, Minn.
DONNAN, DOROTHEA WORTHINGTON.....	Florida, N. Y.
DOTY, PERMELIA MURNAN.....	Glens Falls, N. Y.
EDSALL, MARIAN WELLING.....	Warwick, N. Y.
ELLIS, MAE ATKINSON.....	Oakland, Ga.
ELLIS, MELVINA KEENER.....	Urbana, Ohio
EMERY, ELIZA LAVINIA.....	Clarksville, Tenn.
ENDLY, JULIETTE.....	Elyria, Ohio
EVANS, ALICE CAROLINE.....	Poultney, Vt.
FABER, MARY A.....	Plainfield, N. J.
FAIRCHILD, RACHEL F.....	Wayne, Neb.
FICKEL, GERTRUDE GRETCHEN.....	Stockport, Iowa
FINDLEY, MARY LOUISE.....	Altoona, Pa.
FINLAYSON, JEAN GILKINSON.....	Rockville Centre, N. Y.
FRANK, ENID HENRIETTE.....	New York City
FRANK, ROSE.....	New York City

FROST, EDITH EMILY.....	Kenilworth, N. J.
GALE, MARY ELIZABETH.....	Waterville, Quebec, Canada
GIVEN, ALTA.....	Dumont, N. J.
GLASS, LUCILLE.....	E. Stroudsburg, Pa.
GOODRICH, CATHERINE WOOLSTON.....	Tucson, Ariz.
GRANT, MARY.....	Salt Lake City, Utah
GRAY, ANNIE BROOME.....	Baltimore, Md.
GRAY, CAROLYN E.....	Croton Falls, N. Y.
GREENBAUM, MAMIE ROSALIND.....	Bridgeport, Conn.
GREENHALGH, LUCY ROBERTSON.....	Yonkers, N. Y.
GREENWOOD, WILLETT ELIZABETH.....	New York City
GREGG, DOLLIE IRENE.....	Enid, Okla.
GREIG, MARY.....	Woodmere, N. Y.
GRIEVES, DOROTHY.....	Darien, Conn.
GROSS, ABRAHAM NATHANIEL.....	New York City
HAINES, S. DEBORAH.....	Norman, Okla.
HANCKEL, MARION STEWART.....	Charleston, S. C.
HARRISON, DAISY.....	Gondola Pt., N. B.
HARTY, GENEVIEVE.....	Savannah, Ga.
HASTINGS, DORA EMILIE.....	St. Johnsbury, Vt.
HAWKES, ANNIE HALL.....	Waseca, Minn.
HAYES, MARGARET CHAPIN.....	South Manchester, Conn.
HOERMANN, EMMA.....	Hoboken, N. J.
HOLTE, MAE F.....	Ellendale, N. D.
HOUGHTON, FLORA HARRIET.....	Galva, Ill.
HOYT, RUBY.....	East Cleveland, Ohio
HUNT, ETHEL AUGUSTA.....	New York City
HUSING, MABEL ADELINE.....	Brooklyn, N. Y.
HUSSAKOF, EVA.....	New York City
HUSTON, (MRS.) R. B.....	New York City
IRONS, MINNIE LUCY.....	Rockford, Ill.
IRWIN, RETTA GENE.....	Ligonier, Pa.
JACKSON, BESSIE E.....	Pasadena, Calif.
JACKSON, LUCILE.....	West Summit, N. J.
JAMES, FLORA MARIE.....	Yonkers, N. Y.
JENISON, BESSIE DORA.....	Talladega, Ala.
JONES, ERNEST M. W.....	Ogden, Utah
JONES, MARY TALIAFERRE.....	Evergreen, Ala.
JONES, PRISCILLA DAVIS.....	Newburyport, Mass.
JONES, ROSE ANNA.....	Logan, Utah
JOSLIN, HARRIETT.....	Greencastle, Ind.
JOSLYN, ADELE GLEASON.....	Buffalo, N. Y.
KEENY, PEARL HELEN.....	Ruston, La.
KEMP, MAY D.....	Wichita, Kans.
KERN, FRANCES R.....	Providence, R. I.
KNIFFEN, ALICE C.....	West Cossackie, N. Y.
KOLSHORN, HENRIETTA CHRISTIANA.....	Red Wing, Minn.
KRAMER, JENNY.....	Gärtnerweg, Germany
KREPS, CORINNE S.....	Greenville, Pa.
KRUEGER, MATHILD.....	Neeah, Wis.
LANSING, (MRS.) HELEN P.....	Plattsburg, N. Y.
LANSING, KATHRYN.....	New York City
LANTZ, GRACE.....	Marinette, Wis.
LASHMAN, LOUIS EDWARD.....	New York City
LAWTON, LOUISA HAVEN SHEAFE.....	Hackensack, N. J.

LEGATE, ANNE FLORENCE.....	Paterson, N. J.
LINGLE, JEAN RICHARDSON.....	Hunan, China
LIPSON, FLORA BLANCHE.....	Boston, Mass.
LYLE, GRACE.....	Mendota, Texas
MCDONALD, LAURA LOUISE.....	Jacksonville, Ill.
MCGOUGH, FRANCES J.....	Altoona, Pa.
MCINTYRE, GRACE LENA.....	Crown Point, N. Y.
McMILLAN, GERTRUDE.....	San Francisco, Calif.
MANHEIM, (MRS.) ZIPPORAH C.....	New York City
MARCH, LOLA MAY.....	Pottstown, Pa.
MARSH, FLORENCE ANNE.....	Kalamazoo, Mich.
MARTIN, KATHLEEN ISABEL.....	Perth Amboy, N. J.
MASTERS, MARIAN WILBUR.....	Millville, Pa.
MATHEWS, MARY E.....	New York City
MAUE, EMILY C.....	Hazleton, Pa.
MAYA DAR, HELEN.....	Punjab, India
MEEKER, CHARLES HENRY.....	New York City
MELVIN, HELEN MARGUERITE.....	Forestville, N. Y.
MENDES, MARIA P.....	New York City
MESCALL, GERTRUDE.....	Indianapolis, Ind.
MILES, CHRISTINA LEBRETON.....	New York City
MILLER, RUBY AMY.....	Nicholson, Pa.
MILLOT, HENRIETTA.....	Oswego, N. Y.
MORGAN, LUCILE LOUISE.....	Burlington, Vt.
MOSKOWITZ, BELLA SELMA.....	New York City
MOTT, SARAH MINNIE.....	New York City
MURRAY, ANNA.....	New York City
MYERS, BERTHA IRENE.....	Farrell, Pa.
NESBITT, ELEANOR HINDMAN.....	Houlton, Me.
NESS, WANDA.....	New York City
NUGENT, GERTRUDE.....	Rochester, N. Y.
OLIN, JOHN WILLIAM ELLERY.....	Little Falls, N. J.
ORIEL, MARY L.....	Girard, Ohio
PACKEBUSCH, LOUISE.....	Chicago, Ill.
PALMER, LUELLA A.....	New York City
PARSONS, MARION GENETH.....	Boston, Mass.
PEET, GRACE BEATRICE.....	Cortland, N. Y.
PHELPS, EVELYN CHRISTIE.....	Buffalo, N. Y.
PHILLIPS, C. DOROTHEA.....	Cranford, N. J.
PHILLIPS, ELLEN A. G.....	New York City
PHILLIPS, GERTRUDE HARRIET.....	Glen Ridge, N. J.
PICKETT, ELIZABETH.....	Finchville, Ky.
PIERCE, ELIZABETH MILDRED.....	Hamersville, Ohio
PIKE, FLORENCE SARA.....	Derby Line, Vt.
PLATT, CORA ELIZABETH.....	Savona, N. Y.
PLUMB, ALICE BROOKS.....	Brooklyn, N. Y.
POND, (MRS.) BESSIE GERTRUDE.....	Urbana, Ohio
PROAL, RUTH H.....	Nutley, N. J.
RACOUBIAN, REBECCA S.....	Sivas, Turkey
RAGAN, LUCIA FERIS.....	Neoga, Ill.
RALSTON, MARY H.....	Stamford, Conn.
RAMSDELL, M. ESTELLE.....	Eastport, Me.
REED, MABEL GERTRUDE.....	Dunkirk, N. Y.
REIDY, LILLIAN C.....	New York City
REINER, FRIEDA.....	Brooklyn, N. Y.
RIORDAN, KATHERINE LOUISE.....	Muskegon, Mich.

ROBERTS, ABBIE.....	Cincinnati, Ohio
ROBERTS, MARION MCKAY.....	Hempstead, N. Y.
ROBINSON, MARY ELIZABETH.....	St. John, N. B., Can.
ROOT, EMMA KENT.....	Brooklyn, N. Y.
ROSS, ELIZABETH BELL.....	New Glasgow, N. S., Can.
RUDY, IDA ODELLE.....	Dayton, Ohio
RUEBSAM, EDITH.....	Davenport, Iowa
SALIVA, ERNESTINA.....	Mayaguez, Porto Rico
SAUER, NORMA A.....	Cincinnati, Ohio
SCOTT, KATHERINE KIRKWOOD.....	Milledgeville, Ga.
SEDDON, KATE VENABLE.....	Brooklyn, N. Y.
SHIELDS, JENNIE.....	Malone, N. Y.
SHEPPARD, EMMA ELIZA.....	Hackensack, N. J.
SIMPSON, EVELYN M.....	New York City
SINCLAIR, EDITH MARGARET.....	Fairmont, Minn.
SKINNER, FRANCES BECKWITH.....	Washington, D. C.
SLOAN, MARY JOSEPHINE.....	Worthington, Ind.
SMITH, FLORA ELIZABETH.....	Havana, Cuba
SMITH, MABEL FISK.....	Hackensack, N. J.
SMITH, MARY LOUISE.....	Worcester, Mass.
SMITH, RUTH LAVINIA.....	Long Beach, Calif.
SONN, IONE MARGUERITE.....	Jersey City, N. J.
STEELE, IRENE MILLER.....	Baltimore, Md.
STODDARD, MARGARET LOUISE.....	Lisbon, Ohio
STONE, VIRGINIA ELIA.....	New River Depot, Va.
STORER, HELEN MAYE.....	Susquehanna, Pa.
SULLIVAN, CLARA WOODRUFF.....	Brooklyn, N. Y.
SWANK, CLARA MAY.....	Wapuallopen, Pa.
TARVER, ROSE NORMAN.....	Selma, Ala.
TAYLOR, MARGARET E.....	Ocala, Fla.
THOMAS, MARY DANN.....	Lima, Ohio
THOMPSON, ANDREW ANLEY.....	New Concord, Ohio
TINGWALL, ESTHER GABELLE.....	River Falls, Wis.
TOWNSEND, WILDER EDITH.....	New York City
TRENCH, AMY HELEN.....	Cranford, N. J.
TULLY, JOHN HENRY.....	New York City
VAN WAGENEN, (MRS.) MARY ADELE.....	New York City
VONDER AN, MARGUERITE.....	Athens, Ga.
VROOME, MARY ADELYN.....	Port Richmond, Staten Island
WALTERS, EVA MEBANE.....	Blanche, N. C.
WANNER, DORA E.....	Akron, Pa.
WARNER, LEROY MILES.....	Ludlow, Mass.
WAY, EDNA MARTHA.....	Manchester, Vt.
WAY, MINNIE.....	Cape May Court House, N. J.
WEBSTER, SARAH EMLINE.....	New York City
WELD, FLORENCE MARY.....	South Bend, Ind.
WIBERLEY, ETHEL MAU.....	Amenia, N. Y.
WIGHTMAN, HOMER J.....	Ardmore, Pa.
WILSON, ELIZABETH LOCONA.....	Orange, N. J.
WILSON, FRANCES.....	Spokane, Wash.
WINSLOW, ANNE ROGERS.....	New York City
WOOD, EVELYN.....	Chicago, Ill.
WOOD, MABEL.....	Pacific Grove, Calif.
WOODWARD, ELIZABETH VANARSDALL.....	Flemingsburg, Ky.
WRIGHT, A. MILDRED.....	Greenwich, Conn.

WYLAND, FLORENCE ESTELLA.....	Smith Center, Kans.
YEOMANS, LAURA EDITH.....	Medford, Mass.
YOUNG, ELLEN IZA RENA.....	Millsville, Nova Scotia
YOUNG, HELEN AUGUSTA.....	Chicago, Ill.
YRACCHIA DE MUJICA, OLINDA R. DE.....	Lima, Peru

SCHOOL OF PRACTICAL ARTS

FRESHMEN

AIKINSON, CLARA.....	New York City
AMES, RUTH.....	New York City
ANDERSON, MARGARET DEMAREST.....	Mt. Vernon, N. Y.
BACHE, HARRIET PATTERSON.....	Washington, D. C.
BALLOU, EDITH.....	Newton, N. J.
BARBER, MARY FOSTER.....	Mauch Chunk, Pa.
BARNARD, VIVIA GREY.....	New York City
BERGEN, MAUDE THORNELL.....	New York City
BERNSTEIN, SALOME S. C.....	Portland, Ore.
BETTS, HELEN.....	Highwood, N. J.
BIGGART, HELEN JANE.....	New York City
BIRDSEY, BERTHA TRYON.....	Middlefield, Conn.
BYRON, OLGA.....	Jersey City, N. J.
CABELL, CALVERT.....	New York City
CARTER, HELENE.....	Leonia, N. J.
CASTELLO, FRANCES WINIFRED.....	Brooklyn, N. Y.
CHRISTIE, LILLIAN J.....	Jersey City, N. J.
CLARKE, FRANCIS.....	Jersey City, N. J.
COCHRANE, ELIZABETH SCOTT.....	Wells, N. Y.
COHEN, ALMA JOHANNA.....	New York City
COHEN, MARY RUTH.....	Bayonne, N. J.
COOPER, FLORENCE ALICE.....	Toledo, Ohio
COSBY, OLIVE MAY.....	Kansas City, Mo.
COX, KATHARINE.....	Paterson, N. J.
COYNE, GRACE CATHARINE.....	Yonkers, N. Y.
CUTLER, CHRISTINE NORTH.....	Mt. Hermon, Mass.
DAVIS, LOIS HEGEMAN.....	Roslyn, N. Y.
DESPRES, BERTHILDE S.....	New York City
DEXTER, ALICE WADSWORTH.....	New Bedford, Mass.
DIKEMAN, ARLISTA LILLIAN.....	Worcester, N. Y.
DUBOIS, BARBARA.....	Bridgeport, Conn.
ELLIS, ANNA ELIZABETH.....	Scranton, Pa.
ERIKSON, ELSA JOSEPHINE.....	New York City
EVANS, MARGARET BINFORD.....	Washington, D. C.
FERRY, ISABELLE GUNN.....	Pittsfield, Mass.
FILLMORE, HELEN MAR.....	New York City
FINGER, HILDEGARDE MARIE.....	Wilkes-Barre, Pa.
FISHER, (MRS.) NEWELL H.....	New York City
FITCH, EDITH ACKERMAN.....	Brooklyn, N. Y.
FLEMING, MURIEL.....	San Diego, Calif.
FLOWERS, MARY LABELLE.....	Maurovia, Calif.
FORBES, ELIZABETH SWINTON.....	New York City
FRANK, MARTHA.....	New York City
FULTON, JANE LOUISE.....	Savannah, Ga.
GALE, WARREN DOBSON.....	Waterville, Quebec, Can.

GODDARD, FRANCES ADELE.....	Cortland, N. Y.
GOENAGA, CARMEN.....	Rio Piedras, Porto Rico
GRIMES, ROSE CAMILLA.....	Jersey City, N. J.
GROSSMAN, GLADYS.....	Cleveland, Ohio
GROSSMAN, VERA.....	Cleveland, Ohio
HALL, MARY.....	Petersburg, Va.
HARDING, ROBERTA ELIZABETH.....	Brooklyn, N. Y.
HERSHEY, EDYTHE PAULINE.....	Brooklyn, N. Y.
HESSLER, ELSIE E.....	Tenafly, N. J.
HEUMANN, ELMA IRENE.....	New York City
HOFFMAN, SARAH JANE.....	Dallas, N. C.
HOPKINS, ELIZABETH A.....	Denver, Colo.
HOUGH, GERALDINE HARRIET.....	Dumont, N. J.
HYDE, JANE EARL.....	Joliet, Ill.
INGLIS, EVELYN SESANE.....	New Rochelle, N. Y.
JACOB, HELEN ANNA.....	New York City
JOHNSON, ELEANOR.....	Bloomfield, N. J.
JOHNSTON, ELEANOR.....	New York City
KANE, FRANCES LILYAN.....	Brooklyn, N. Y.
KELLY, ANNA MARGARET.....	Springfield, Ohio
KUDLICH, LOUISE H.....	Drifton, Pa.
LaSALLE, DOROTHY MARGUERITE.....	New York City
LAW, MARGARET ROSAMOND.....	Mt. Vernon, N. Y.
LAWTON, KATHERINE MILLER.....	Torrington, Conn.
LINCOLN, ELSIE BENNETT.....	New Haven, Conn.
LINDHOLM, EDLA M.....	Passaic, N. J.
McALISTER, MARION H.....	Watertown, N. Y.
MANTELL, LOUISE RUSSELL.....	Atlantic Highlands, N. J.
MEGAHAN, ANNA M.....	Brooklyn, N. Y.
MEINHOLD, AMY.....	New York City
MONROE, JULIET.....	Yonkers, N. Y.
MONTGOMERY, VERONA.....	Decatur, Ill.
MORRISSEY, KATHERINE L.....	Bridgeport, Conn.
MORRISSEY, NORAH CATHERINE.....	Yonkers, N. Y.
MULLARKY, ANNE C.....	Augusta, Ga.
MURPHY, PORTER CORNELIUS.....	New York City
NELSON, MARION LELAND.....	Hinsdale, N. Y.
NUGENT, MARIE LOURDES.....	Rochester, N. Y.
OLDFIELD, ISABEL ELLEN.....	Saylesville, R. I.
O'NEIL, CHARLOTTE.....	Binghamton, N. Y.
ORTMAN, VERA.....	New York City
PAGE, NELLIE CHASLAIN.....	Marshall, Wis.
PAGE, PHYLLIS.....	Oakland, N. J.
PALMER, MARJORIE L.....	Pasadena, Calif.
PEENE, GERTRUDE MAY.....	Yonkers, N. Y.
PERRY, HELEN CLARK.....	Summit, N. Y.
PETERS, MARJORIE.....	Salisbury, Md.
PHELPS, KATHARINE ELIZABETH.....	Barre, Vt.
PHILLIPS, MARTHA.....	Columbia Cross Roads, Pa.
PIERCE, LAURA WILMA.....	Croton-on-Hudson, N. Y.
POLLITZER, ANITA LILLIE.....	Charleston, S. C.
PORCES, REGINE.....	Fort Wadsworth, N. Y.
PUDDICOMBE, DOROTHY E.....	New Haven, Conn.
ROBERTS, BETTY TYLER.....	Hempstead, N. Y.
ROGERS, EDITH ALBERTA.....	Buffalo, N. Y.

RUSSELL, AULEEN.....	Canastota, N. Y.
SARGENT, MIRA.....	Worcester, Mass.
SEARLE, ELIZABETH.....	Dowagiac, Mich.
SEIFERD, ELEANOR LENA.....	New York City
SHELDON, WILHELMINA RADCLIFFE.....	Millsville, N. J.
SLAGER, EDNA JOSEPHINE.....	Springfield, Ohio
SPARKMAN, EDNA I.....	Paterson, N. J.
STALL, HELEN LOUISE.....	New York City
TAYLOR, ANTOINETTE.....	Halesite, N. Y.
THOMASSON, RUTH AUDREY.....	Rock Hill, S. C.
TILLMAN, MARTHA WASHINGTON.....	Nashville, Tenn.
TITCHER, CORDELIA.....	Monroe, La.
VER NOOY, HELEN.....	High Falls, N. Y.
VOSBURGH, MAUDE HILL.....	Canajoharie, N. Y.
WEAVER, EFFIE M.....	Louisville, Ky.
WEAVER, JESSIE SANDERS.....	Allston, Mass.
WELLING, JANE BETSY.....	Valley Falls, N. Y.
WELLMAN, KATHRYN.....	Friendship, N. Y.
WILLIAMS, LILIAN.....	Rahway, N. J.
WILLIAMS, LOUISE MARY.....	Scranton, Pa.
WILSON, MILDRED NEWCOMB.....	New York City
WOODBURY, DORIS OSTROM.....	New York City
YUNGERMAN, HENRY.....	New York City
ZEMAN, DOROTHY.....	Brooklyn, N. Y.

SOPHOMORES

ACKERMAN, MILDRED KINNAR.....	New York City
ADDISON, MARY AGNES CHARLOTTE.....	Toronto, Can.
ANDREWS, LAURA E.....	Seymour, Ind.
BARRY, MARY.....	Flushing, N. Y.
BARTEL, EVELYN STUYVESANT.....	Bayonne, N. J.
BASFORD, KATHARINE.....	Mt. Vernon, N. Y.
BECKER, MARGARET CHRISTINA.....	Leonia, N. J.
BEHM, MARION L.....	Syracuse, N. Y.
BETTS, MARGUERITE.....	Highwood, N. J.
BILL, PAULINE.....	Willimantic, Conn.
BILLINGS, GRACE.....	Brooklyn, N. Y.
BOOTH, ALMA DOWNING.....	New York City
BOYD, BEATRICE PHYFE.....	Peekskill, N. Y.
BRADY, LORETTA ANNE.....	New York City
BRENNAN, RUTH REGINA.....	Yonkers, N. Y.
BROWN, ELIZABETH LEONORA.....	New York City
BUCKLEY, ANNA.....	Scranton, Pa.
BURDETT, MILDRED.....	East Orange, N. J.
BURWELL, LAURA PELLWAY.....	Warrentown, N. C.
CALDWELL, LEILA MAY.....	Kirkwood, Mo.
CAMPBELL, IRENE CHALFIELD.....	Manchester, Conn.
CAPWELL, DOROTHY E.....	Scranton, Pa.
CARR, KATHRYN L.....	Wilkes-Barre, Pa.
CHEIFETZ, SADIE.....	New York City
CLARKE, RUTH MABLE.....	New York City
CLAYTON, MARY.....	Lewisburg, Pa.
COHN, MIRIAM.....	New York City
COLLINS, MARY MARGARET.....	Wilkes-Barre, Pa.
COLLINS, WILL FRANKLIN.....	Ft. Worth, Tex.
COOPER, LUCY FRANCES.....	Brooklyn, N. Y.

CORTADA, SARA EMMA.....	New York City
CRAPO, GRACE BARKER.....	New Bedford, Mass.
DAVIES, GWENLLIAN.....	Hazleton, Pa.
DEGROODT, IRENE MARY.....	Jersey City, N. J.
DEUTSCH, GLADYS FRANCES.....	New York City
DEUTSCH, IRENE.....	New York City
DICKENSON, MARION ELLEDA.....	Hamilton, Can.
DICKERT, MILDRED AMELIA.....	New York City
DUDLEY, MAURINE CAYLOR.....	Ruston, La.
DUNN, ANNA MARIE.....	Passaic, N. J.
DWYER, MAURICE KEVIN.....	Jersey City, N. J.
ECKELBERRY, MARTHA.....	Columbus, Ohio
ENTELMANN, MILLIE.....	New York City
EPSTEAN, ETHEL.....	Lake Hopatcong, N. J.
FISCHER, RUTH MARGUERITE.....	Paterson, N. J.
FRANKFURTER, EMANUELLA.....	New York City
GALBRAITH, LILLIAN.....	Troy, N. Y.
GAUL, MARY ELIZABETH.....	Yonkers, N. Y.
GENTZSCH, LILLIAN MARIE.....	Leonia, N. J.
GIBSON, ANNIE KATHARINE.....	Utica, N. Y.
GILCRUST, JUNE EMMA.....	Gainesville, Tex.
GREENE, MARGARET.....	Honesdale, Pa.
HALL, MARIE GLADYS.....	Highlands, N. J.
HECKELMAN, ISAAC.....	New York City
HILTON, VIRGINIA.....	Bayonne, N. J.
HOWELL, GENEVIEVE D'AUVERGNE YVONNE.....	Brooklyn, N. Y.
HUBBARD, MARION.....	New York City
HUNTINGTON, JOSEPHINE.....	Yonkers, N. Y.
HUTTON, ANNA DAPHNE.....	Detroit, Mich.
JACOBS, MORRIS.....	Bayonne, N. J.
JAGGER, OLIVE BURNETT.....	Southampton, N. Y.
JARDINE, BEATRICE WARNER.....	Kenvil, N. J.
KAPLAN, LILLIAN DOROTHY.....	New York City
KATAYAMA, JOHN YAROKU.....	Osaka, Japan
KISCH, ELSA HELENE.....	New York City
KNAPP, HARRIET ELIZABETH.....	Buchanan, N. Y.
KUPFER, HELEN.....	New York City
LANDRINE, MARGARET.....	Maywood, N. J.
LANGFELD, SELMA H.....	Wilkes-Barre, Pa.
LENIHAN, MARY MARGARET.....	Laurel Hill, N. Y.
LEVY, MIRIAM ROSE.....	Wilkes-Barre, Pa.
LUNGER, CLEO VIVIAN.....	Marion, Ohio
MCCORMICK, MARY ELEANOR HELMER.....	Watertown, N. Y.
McKELVEY, JESSIE.....	Jersey City, N. J.
MAITLAND, M. OLIVIA.....	Mt. Vernon, N. Y.
MANOCK, MARGERY.....	Pittsfield, Me.
MEMORY, MILDRED FEAR.....	Maplewood, N. J.
MILLER, GENEVIEVE KREY.....	Brooklyn, N. Y.
MOFFAT, ETHEL.....	Orange, N. J.
MONTGOMERY, EMILY CAROLINE.....	Decatur, Ill.
MORRISSEY, LILY.....	New York City
NELSON, HELEN L'AMAREAUX.....	Brooklyn, N. Y.
OGDEN, FRANCES LANTERMAN.....	Hackensack, N. J.

PAINE, LOUISE KIRBY.....	Redding, Conn.
PEENE, EMMA L.....	Yonkers, N. Y.
PEET, RUTH.....	New York City
POWELL, MARION WEBSTER.....	Brooklyn, N. Y.
POWELL, MYRTLE CAROLINE.....	New York City
RECIO, FLEURETTE ALEXANDRE.....	New York City
REED, REBA WINGATE.....	Philadelphia, Pa.
REILLY, MARIE MARGARET.....	Scranton, Pa.
RICHARDSON, ISABEL CYRENE.....	Littleton, N. H.
RICHARDSON, MARY.....	New York City
ROPER, MARION ROBERTSON.....	Riverpoint, R. I.
ROSENKRANZ, PHILIP.....	New York City
RUST, ELSA GENEVA.....	Anaheim, Calif.
SCHIFFENHAUS, IDA.....	Newark, N. J.
SCHLESINGER, BEATRICE.....	New York City
SCHWARTZ, MARION K.....	Plymouth, Pa.
SHULTZ, ANNA MARY.....	Danville, Pa.
SIMONSON, ALICE.....	Hollis, N. Y.
SMART, WINIFRED V.....	New York City
SMITH, MARGUERITE LEVIA.....	New York City
SONDHEIM, STELLA MAY.....	Richmond Hill, N. Y.
SQUIRES, MARTHA C.....	Binghamton, N. Y.
STANLEY, EDNA MARGARET.....	Woodcliff-on-Hudson, N. J.
STEWART, JESSIE HERRIES.....	Morden, Manitoba
STIEBEL, MILDRED.....	New York City
STOCKTON, EDNA MARGARET.....	Englewood, N. J.
STORMS, DOROTHY ELIZABETH.....	Dobb's Ferry, N. Y.
TAYLOR, LILLIAN BEATRICE.....	Montreal, Can.
TERHUNE, IRMA GERTRUDE.....	Jersey City, N. J.
TERRILL, ESTELLE WEST.....	Rahway, N. J.
THURSTON, MARY WHARTON.....	Atlanta, Ga.
TILLMAN, SARAH DOROTHY.....	Rahway, N. J.
TINGLEY, GEORGIA.....	Rahway, N. J.
TOWNSEND, CLARA PEARL.....	Greenwich, N. Y.
TUTTLE, HELEN LOUISE.....	Newark, N. J.
UHL, MARY REBECCA.....	Millersbury, Ohio
UNDERWOOD, HELEN ALICE.....	Lancaster, N. H.
WALKER, BERTHA LOUISE.....	Morristown, N. J.
WALLACE, MARY.....	Montclair, N. J.
WEISBACH, MARGARETHE.....	Tacoma, Wash.
WENTE, ELIZABETH K.....	Cincinnati, Ohio
WHITE, ELEANOR STANLEY.....	New York City
WILKES, BERTHA CORINNE.....	New York City
WOLCOTT, MARGARET ELIZABETH.....	New York City
WORTMAN, CAROLINE JOHANNA.....	Brooklyn, N. Y.
YONGE, JEAN.....	Pensacola, Fla.

JUNIORS

BARRETT, ETHEL ANNA.....	Englewood, N. J.
BARTLETT, MARGERY JUNE.....	Brooklyn, N. Y.
BISHOP, HELEN CORNELIA.....	Forest Grove, Ore.
BOUGHTON, ALICE CAROLINE.....	West Philadelphia, Pa.
BROWN, FREDERICK MORRIS.....	Westfield, Mass.
BYRNES, MARGARET.....	Flushing, L. I.
CORSE, ANNA MATTHEWS.....	Baltimore, Md.

CRANE, ADELAIDE E.	Mt. Sterling, Ill.
CURTIS, JOHN MORRISON	Jersey City, N. J.
DIXON, MABEL EASTMAN	Sac City, Ia.
GOTSHALL, HULDA MAUD	Scranton, Pa.
GOWING, CHARLOTTE ELIZABETH	New Haven, Conn.
GRIMES, FRANCES WELLINGTON	New York City
HAVENS, HELEN CURTIS	Bridgeport, Conn.
HECHT, SADIE	Maywood, N. J.
HERETH, MARY MARGARET	Brooklyn, N. Y.
HOLINGER, SEGRID CHARLOTTE	McKeesport, Pa.
HOOVER, ANNA TODOR	Brooklyn, N. Y.
JARVIS, ELLEN	Yonkers, N. Y.
LEONARD, EDITH	New York City
LEVERETT, JOSIE	New York City
LEVY, ADELE HELENE	Scranton, Pa.
MACDERMUTT, RUTH LOUISE	Leonia, N. J.
MEIROWITZ, SAMUEL	New York City
MEYER, ANITA THEODORE	New York City
MINER, MARIAN WAKELEY	New York City
NELLIS, (Mrs.) EDWARD G.	New York City
NORTON, ANNA EVALYN	Middletown, N. Y.
NORWOOD, GUINEVERE HAMILTON	Allegany, N. Y.
OPPENHEIM, (Mrs.) LUCY S.	New York City
PALMER, CATHARINE AMORY	New York City
PENTECOST, ETHEL AUGUSTA	Northboro, Mass.
PERRY, MARY ALMEDA	Vernal, Utah
REIGART, KATHARINE M.	Yonkers, N. Y.
ROGERS, HELEN KNIGHT	Hampton Institute, Va.
SCHMIDT, MARGARET	New York City
SLOCUM, ANGELITA E.	Port Chester, N. Y.
SMITH, JENNIE FRANCES	Colebrook, N. H.
SNELL, HELEN BEATRICE	Mt. Vernon, N. Y.
STODDARD, ALICE GORDON	New York City
TOUSSAINT, EDNA RUTH	New York City
TRULAND, HELEN MARGARET	Lancaster, N. H.
VAN AKEN, VERA AURA	Detroit, Mich.
WELLS, ELEANOR FRANCES	Wellesley, Mass.
WICKENDEN, YVONNE ADA	Bethel, Conn.
WOLF, ANNA M.	New York City
YOUNG, RUTH E.	Minneapolis, Minn.

SENIORS

INNIS, FLORENCE VICTORIA	McCoysville, Pa.
MANN, ELIZABETH	Richmond Hill, N. Y.
TOWL, SARAH DEAN	Brooklyn, N. Y.

UNCLASSIFIED

HENK, ROBERT	Doylestown, Pa.
HINCHMAN, ELIZABETH	Vernon, Ind.
McCORMICK, SARA HELENA	Pomona, Calif.
MORGAN, FRANCES S.	Norwich, Conn.
NORTHROP, BELLE	Pasadena, Calif.
PARSONS, NELLIE M.	Claremont, Calif.
PRAY, GLADYS	Passaic, N. J.
STITES, ANNE	Louisville, Ky.

SUMMARY

A. School of Education:

I. Graduate Students:

Candidates for Doctor's Degree and Diploma.....	74
Candidates for Master's Degree and Diploma.....	276
Unclassified.....	39
	<hr/>
	389

II. Professional Students:

Candidates for Bachelor's Degree and Diploma, for Special Diplomas,
and for Departmental Certificates:

For Teaching: Biology 7, Elementary Education 35, English 63, Fine Arts 71,
French 9, Geography 5, German 27, History 31, Household Arts 267, Industrial Arts
54, in Kindergarten 33, Latin 10, Mathematics 38, Music 31, Nursing and Health
26, Physical Education 49, Physical Science 13, in Secondary Schools 1, Supervising
in Elementary Schools 86, Supervising in Kindergarten 29, Supervising in
Primary Grades 17, Candidates for the Bachelor of Science Degree only 9.....

III. Unclassified Students..... 66

Less duplicate counts, students candidates for more than one di-
ploma..... 967

B. School of Practical Arts:

I. Freshmen.....	122
II. Sophomores.....	128
III. Junior.....	48
IV. Senior.....	7
V. Unclassified.....	10
	<hr/>
	315

Total resident registration..... 1671

C.....I. Additional matriculated students, Summer Session, 1913..... 623

Net total matriculated students..... 2294

II. Students from other parts of the University..... 457

Total matriculated students..... 2751

III. Non-matriculated students (special classes) registered at Teachers
College..... 1154

Non-matriculated students (evening technical classes)..... 124

1278

Total attendance..... 4029

In addition to the above there are this year 1077 pupils in the Horace Mann
School and 191 in the Speyer School; total 1268.

Total attendance at the college and its schools, 5297.

COLLEGE OF PHARMACY

Faculty President BUTLER

Dean RUSBY

Professors ARNY, BASTEDO, CHANDLER, COBLENTZ, CURTIS, DIEKMAN,
DUFF, ELLIOTT, GIES, JESSUP, MANSFIELD, OEHLER, VORISEK, WIMMER

Other Officers of Instruction FREDERICK A. LESLIE, Phar.D., *Instructor in Analytical Chemistry*;
CHARLES W. BALLARD, A.M., Ph.Ch., Phar.D., *Instructor in Materia Medica*;
JEANNOT HOSTMANN, Ph.G., *Instructor in Chemistry*; LEO ROON, Ph.Ch.,
Instructor in Pharmacy; MISS FANNIE HART, Ph.G., *Assistant in Materia Medica*; BENJAMIN MASLON, Ph.G., *Assistant in Analytical Chemistry*.

General Statement The College of Pharmacy of the City of New York, founded in 1829, chartered in 1831, and recognized in 1879 by the Regents as part of the University of the State of New York, became a member of the educational system of Columbia University on July 1, 1904. The President of the University is *ex-officio* President of the College of Pharmacy, and the College is represented in the University Council by its Dean, who is appointed by the Trustees of the College of Pharmacy on the nomination of the President. The College, however, maintains its separate corporate organization, and its Trustees continue to provide for its financial support.

The College is situated at 115 West 68th Street, near Columbus Avenue, in an especially well-equipped building erected in 1894.

The College of Pharmacy is thus the professional school of Columbia University for pharmacists, pharmaceutical chemists, and Doctors of Pharmacy and, as well, a valuable addition to the University's resources for teaching and research in botany, chemistry, and materia medica.

Admission Students who are to be examined for admission will be examined either at the Regents' examination, or at the January and September entrance examinations of Columbia University, or of the College Entrance Examination Board, which are held in June of each year (see page 173).

College Course This course of two years is open, according to statute, only to persons holding the Qualifying Certificate for a Pharmacy Student, granted by the State Education Department for 15 Regents' counts or their equivalent. (Leading to the degree of Ph.G.)

This course of three years is open only to persons who have completed a four-year course in a registered high school or who have passed the Entrance Examinations of Columbia University or of the College Entrance Examination Board. (Leading to the degree of Ph.Ch.) **University Course**

This course is open to pharmaceutical chemists of this or other schools of equal grade or those holding equivalent degrees. (Leading in one year to the degree of B.S. in Pharmacy and in three years to the degree of Doctor of Pharmacy.) **Graduate Course**

This course is open to all graduates of this College, and to others whose training has qualified them to perform the necessary work. **Food and Drug Course**

1. A College course, consisting of a junior and senior year, leading to the degree of Graduate in Pharmacy, conferred by the College independently of the University, and qualifying the graduate to meet any examination for the position of licensed pharmacist. **Program of Study**

The work undertaken is as follows: Junior year—physics, general and pharmaceutical chemistry, analytical chemistry, practical pharmacy, dispensing pharmacy, botany, pharmacognosy, physiology, and toxicology. Senior year—organic chemistry, inorganic and organic pharmaceutical chemistry and urinalysis, analytical chemistry, practical pharmacy, dispensing pharmacy, materia medica, toxicology, commercial pharmacognosy, histological pharmacognosy.

2. A University course of three years leading to the degree of Pharmaceutical Chemist, conferred by the University. The work undertaken in this course differs from that of the College course in being of a somewhat more advanced character, and in being pursued through the full academic year. It includes instruction in general biology and a laboratory course in physics, in addition to the studies of the College course.

3. A third or graduate course leading to the degrees of B.S. and Phar.D. in Pharmacy.

For the sessions of 1913-1914 and 1914-1915, the work of the graduate course, leading to the degree of Doctor of Pharmacy, will cover but a single year, as heretofore, thus providing for the completion of the course already begun by those who matriculated prior to 1913.

Beginning with the session of 1915-1916, the Graduate course of this College, leading to the degrees of B.S. in Phar., and Phar.D., will be based on the degree of Ph.Ch. or an equivalent degree, conferred for at least three years' work of not less than 600 hours each, following high school graduation.

The work of the Graduate course, occupying three days weekly, will then cover three years of not less than 600 hours each. At the end of

the first year successful candidates will receive the degree of B.S. in Phar., and at the end of the course, that of Phar.D.

The purpose of this course is the training of men and women for the higher duties of pharmaceutical and allied service, such as pharmaceutical and commercial analysis, food and drug inspection and commissionship, health board and pharmacy board membership, and pharmaceutical teaching.

This baccalaureate degree, secured on equal terms with that conferred in other professions, confers equal privileges therewith, except as to the number of units of work performed. A holder of this degree desiring to transfer his activities to another profession, or to study for a higher degree, will be credited in such course with the number of units pertaining to his B.S. in Phar. course, and his standing, up to this point, is the same as that secured in other baccalaureate departments.

4. A course of one year in the microscopical and chemical analysis of foods and drugs. A Summer Preparatory Course of twelve weeks is provided for those who, for any reason, require training in special subjects as a preparation for the Food and Drug Course.

5. A number of special courses of instruction have also been established partly for the benefit of those regular students who desire, for any reason, to specialize in certain lines of work, and partly to provide instruction in individual departments for those who do not desire to take the full course. Certificates, but not diplomas, are awarded to such students. These special courses of instruction are in pharmacognosy, chemical analysis, advanced inorganic and organic chemistry, and practical pharmacy.

Method During the junior and senior years the instruction occupies three days of the week, the alternate days being free for that practical experience in the pharmacy which is required by Boards of Pharmacy. This arrangement enables students to meet the Board requirements, and it also provides a means of paying the expenses of a majority of students.

Many students, under the advice of the Faculty, prefer to devote the entire time of the second year to college work. For those so desiring, additional instruction is provided.

In addition to lectures and laboratory work a series of recitations or quizzes, by a corps of qualified instructors, is given to the classes, in small sections.

Prizes (page 435)

REGISTER OF STUDENTS

COLLEGE OF PHARMACY

SENIOR UNIVERSITY CLASS

ARGUELLO, JOSE E.....	Nicaragua
BERNER, FRANK.....	New York City
BROTHERTON, HAROLD T.....	Peekskill, N. Y.
BROWN, LEWIS N.....	Sag Harbor, N. Y.
COGSWELL, GEORGE R.....	Rome, N. Y.
COLE, EDWIN M.....	Rome, N. Y.
CRYSTAL, BENJAMIN H.....	New York City
DIXON, AARON M.....	Butler, N. J.
DIXON, MAYNARD H.....	Newark, N. J.
DRAPKIN, SAMUEL R.....	New York City
EICHACKER, EDWARD G.....	New York City
EMBREE, CARLTON S.....	Stamford, Conn.
EMMETT, HAROLD F.....	Bristol, Conn.
FRAWLEY, FRANCIS A.....	Bangor, Me.
FRIED, MISS ROSE.....	New York City
GOLDSTEIN, JOSEPH.....	New York City
JACOBS, JACOB M.....	Paterson, N. J.
JONES, ROSCOE F.....	Suffern, N. Y.
KRAMER, MISS KATE.....	New York City
LEVINE, MORRIS R.....	New York City
MANGO, LOUIS V.....	New York City
MARTUS, JEROME H.....	New York City
OSBORN, THOMAS G.....	Riverhead, N. Y.
PAROTZKY, JULIUS.....	New York City
POSIN, SHALEM E.....	New York City
PROPPER, MISS RUTH.....	New York City
RABINOWITZ, ISIDORE.....	New York City
RITTER, ISIDORE.....	New York City
SIMON, MANFRED.....	New York City
TELL, JOSEPH J.....	New York City
TWERSKY, MORRIS.....	New York City
WANDERMAN, SIMON L.....	New York City
WEINREB, CHARLES.....	New York City
WIRELICH, HARRY.....	New York City

[34]

SENIOR COLLEGE CLASS

ACKERMAN, J. SEBRING.....	Ossining, N. Y.
AGER, MISS LENA O.....	New York City
AJAMIAN, CHARLES.....	New York City
ARCABASSO, JAMES.....	New York City
ARCHER, WARD F.....	New Rochelle, N. Y.
ARONSOHN, HARRY S.....	New York City
ATWOOD, EDWARD A.....	Paterson, N. J.
AUGSBURY, THEODORE B.....	Plessis, N. Y.

BALDWIN, EARL M.	State Line, Mass.
BARENZANO, JOSEPH N.	New York City
BENNETT, HENRY D.	Claryville, N. Y.
BENNETT, REUBEN J.	Claryville, N. Y.
BOUGHER, CLIFFORD I.	Jamaica, N. Y.
BOUNIN, ISAAC	New York City
BOWEN, JOHN	Wilkes-Barre, Pa.
BREITBART, MAX.	New York City
BRETTER, BERNARD	New York City
BROWN, JOEL W.	Port Jefferson, N. Y.
CALLAHAN, FRANCIS A.	Piermont, N. Y.
CANGIALOSI, CIRO	New York City
CANNELLA, GIUSEPPE	New York City
CAVALLO, GAETANO E.	Garfield, N. J.
CHASAN, DAVID	Wilkes-Barre, Pa.
CIANCIULLI, CAMILLO	New York City
COLFAX, MISS MARGUERITTE A.	Pompton Lake, N. J.
COLLEY, ROBERT R.	Wilkes-Barre, Pa.
CONCIALDI, LEWIS	Rockaway, N. J.
CRAGG, EDWARD, JR.	Mt. Vernon, N. Y.
CONRADI, RUDOLPH H.	New York City
DAVIS, BROOKE J.	New York City
DE CARO, PETER	New York City
DE LALLA MICHELE	Utica, N. Y.
DE MAIO, MISS HENRIETTA	New York City
DENNIS, CLARENCE F.	Augusta, N. J.
DWORETZKY, LOUIS	New York City
EMANUEL, MEYER	New York City
FASANO, EMIDIO	Jersey City, N. J.
FERBER, SAMUEL	New York City
FERRO, EDWARD	New York City
FINELLO, RALPH F.	Jersey City, N. J.
FLETCHER, FRANCIS T.	Utica, N. Y.
FORMAN, JULIUS	New York City
FRANCESCHI, ANTONIO	New York City
FROHWEIN, OTTO J., JR.	New York City
GALATERIA, ANTHONY	New York City
GHIRARDI, FORTUNATO O.	New York City
GITTLEMAN, HARRY E.	New York City
GODES, HERMAN J.	New York City
GOLDSCHMIDT, JACOB	New York City
GORDON, MAXIMILIAN P.	New York City
GOURIN, BORIS	New York City
GREENE, FRANK A.	Suffern, N. Y.
GREEN, JOHN J.	Summit, N. J.
GRITZ, DAVID K.	New York City
GURRY, EDWARD A.	Utica, N. Y.
HAMMER, HARRY J.	New York City
HARTMAN, EUGENE	New York City
HENKEL, WALDEMAR	New York City
HERGERT, CARL H.	Elizabeth, N. J.
HERTZ, ORRIN	Norwich, Conn.
HOAGLAND, VEBBER C.	Cobleskill, N. Y.
HODES, HARRY H.	New York City
HUDES, HENRY L.	New York City
ISKENDERIAN, HARONTUNE	New York City

JACOBSON, NICHOLAS N.....	Yonkers, N. Y.
JARVIS, HAROLD L.....	Olion, N. Y.
KANNER, LEON.....	New York City
KAPLAN, SAMUEL.....	New York City
KASSNER, ARNO W. C.....	Jamaica, N. Y.
KATZEN, HERMAN.....	New York City
KINANE, THOMAS E.....	New York City
KIRSCHNER, WILLIAM L.....	New York City
KLEIN, SAMUEL M.....	New York City
KODET, EDWARD J.....	New York City
KOHN, ALBERT C.....	Bayonne, N. J.
LAMBERT, ALBERT.....	New York City
LETCHNER, LUDWIG.....	New York City
LENT, EVERETT.....	Montrose, N. Y.
LENT, FRANK S.....	Peekskill, N. Y.
LENER, BENJAMIN.....	Hoboken, N. J.
LEVY, ABRAHAM S.....	New York City
LIGORIO, COSIMO.....	New York City
LORD, CLARENCE S.....	Mansfield, Mass.
LOVECE, NICHOLAS.....	New York City
McSHEEHY, FRANK B.....	New York City
MARIANOWSKY, JACOB.....	New York City
MARKOWITZ, MURRAY.....	New York City
MICHELS, JACOB.....	New York City
MOADINGER, EDGAR L.....	Walden, N. Y.
MOSKOWITZ, NATHAN.....	New York City
MUNN, SAMUEL A.....	Yonkers, N. Y.
MURRAY, EDWIN T.....	Bangor, Me.
NEEDLES, GEORGE A.....	New York City
NIEMETZ, HARRY D.....	New York City
NODELMAN, NATHAN.....	New York City
ODELL, DANIEL W.....	Tarrytown, N. Y.
OPRIAS, MISS ROSE F.....	New York City
PASSANNANTE, ORLANDO.....	New York City
PEDDIE ROY M.....	Glen Falls, N. Y.
PICOZZI, SALVATORE.....	New York City
PODOLSKY, REUBEN.....	New York City
PORTOGHESE, GAETANO.....	New York City
REISS, LOUIS.....	New York City
RICHMOND, IRVING F.....	Ellenville, N. Y.
RINALDI, ALFRED E.....	New York City
ROSE, DUNCAN.....	Richmond Hill, N. Y.
ROSEN, MAX.....	New York City
ROSENFELD, ABRAHAM.....	New York City
ROSENFELD, ABRAHAM J.....	New York City
ROSENTHAL, J. MYRON.....	New York City
ROTHSTEIN, MISS MARY.....	New York City
RUDERMAN, MORRIS D.....	New York City
SANCHEZ, MIGUEL S.....	Manzainillo, Cuba
SCHAEFER, EDMUND.....	Sag Harbor, N. Y.
SCHWERSSENS, ROBERT.....	New York City
SCIACCA, JOHN.....	New York City
SHEINAUS, LOUIS.....	New York City
SHWALB, HARRY.....	Jersey City, N. J.
SIEGEL, SAMUEL.....	New York City
SPITALE, GAETANO J.....	New York City

STERN, JOSEPH.....	New York City
STEWART, MASON.....	New York City
STORM, CHARLES M.....	Matteawan, N. Y.
TOOMEY, DANIEL M.....	Newport, N. Y.
TRAINOR, JOSEPH.....	Peekskill, N. Y.
TROTTA, REMO.....	New York City
UNTERMAN, WILLIAM.....	New York City
VENETUCCI, JUSTIN.....	New York City
VITALE, NICHOLAS J.....	New York City
WIENER, NATHAN.....	New York City
WILLIAMS, LUCIUS A.....	Brockport, N. Y.
WINDT, JOSEPH.....	New York City
WODICKA, MRS. FLORENCE V. G.....	New York City
WU, SZZEJAN.....	Canton, China
ZIBULSKY, WILLIAM.....	New York City
ZIPEROWITZ, ABRAHAM.....	New York City

[136]

FIRST YEAR UNIVERSITY CLASS

ARONSTAMM, GEORGE C.....	New York City
BLAU, JOSEPH.....	New York City
BURNETT, ARTHUR C.....	Hopewell Junction, N. Y.
CAFFREY, MISS EDYTHE R.....	New York City
CAPECI, ERNEST.....	Port Chester, N. Y.
COHEN, JOSEPH.....	New York City
DAVIS, JESSE.....	Smithtown Branch, L. I.
DISPENZA, MISS ROSE.....	New York City
DRAGOTTA, SAMUEL.....	New York City
ESPERSON, GERHARD E.....	New York City
GREEN, JOSEPH.....	New York City
GUCK, OSMOND M.....	New York City
MCBRIDE, WILLIAM A.....	Kingston, N. Y.
MADDEN, JAMES B.....	Saranac Lake, N. Y.
MILLER, HENRY E.....	Roscoe, N. Y.
MORGAN, ROBERT E.....	Germantown, Pa.
NEWFIELD, SAMUEL H.....	New York City
O'CONNOR, MISS MARY A.....	White Plains, N. Y.
O'HAGAN, CHARLES.....	Port Chester, N. Y.
OSTROW, GEORGE D.....	New York City
PAULONIS, JOSEPH F.....	New York City
SCHUMACHER, FRED R.....	Kearney, N. J.
SESTA, JOSEPH A.....	Jersey City, N. J.
STRONGIN, HERMAN F.....	Uncasville, Conn.
TONG, LI TA.....	Peking, China
VANVOORHIS, JAMES.....	Highland Falls, N. Y.
WAGNER, RICHARD J.....	Albany, N. Y.
YEE, CHUCK T.....	Hong Kong, China
ZOGRAFI, ELIAS.....	New York City

[29]

JUNIOR COLLEGE CLASS

AGASHEIN, NICHOLAS.....	Elizabeth, N. J.
AJAMIAN, AARON.....	New York City
AMABLE, ANTHONY.....	Paterson, N. Y.
AMBROSE, FRED E.....	Bridgeport, Conn.
AMEDEO, JOSEPH B.....	New York City

AMICO, PASQUALE, JR.	New York City
ANDREWS, FONNIE J.	Durham, N. C.
ANDREWS, JUNIUS F.	Durham, N. C.
ANGEL, EMIL	New York City
ANZALONE, SALVATORE	New York City
ARGINTEANU, MISS DEBORAH	New York City
ARONOVIC, ABRAHAM	New York City
AVSTREIH, WILLIAM M.	New York City
BACH, ALEXANDER	New York City
BANKERT, ANTHONY G.	Utica, N. Y.
BARKIN, BENJAMIN	New York City
BATTAGLIA, JOHN	New York City
BAUM, MISS JENNIE	New York City
BAYER, HENRY	New York City
BEDRICK, MAX	New York City
BELLOWS, ORIN K.	Barre Plains, Mass.
BERKOWITZ, BENJAMIN H.	New York City
BERKOWITZ, BERNARD S.	New York City
BERMAN, FRANK	New York City
BERNSTEIN, NATHAN J.	New York City
BESSER, ARTHUR W.	New York City
BISCHOFF, MISS LILLIAN	Morris Park, L. I.
BLAKE, LESLIE L.	Port Byron, N. Y.
BLAU, NATHAN	New York City
BLEICHER, MAX	New York City
BLINDER, WILLIAM	New York City
BLOMEIER, WALTER H.	New York City
BOEHLERT, CARL A.	Utica, N. Y.
BOEHME, CARL	New York City
BRVIN, HENRY J.	New York City
BRILL, MISS LENA	New York City
BULL, DANIEL M.	Walkill, N. Y.
RUSSELL, HYMAN	New York City
CAMPBELL, JAMES W.	Suffern, N. Y.
CAPECI, JOHN D.	Port Chester, N. Y.
CARABILLO, ANTONIO S.	New York City
CAIROLI, JOSEPH	West Hoboken, N. J.
CECERE, THOMAS J.	New York City
CHAMBERS, ISIDOR S.	New York City
CHAPMAN, NATHANIEL	Yonkers, N. Y.
CHASAN, ISAAC	Maspeth, L. I.
CHEBOT, NORMAN B.	Fall River, Mass.
CHECCHIA, MISS THERESA	New York City
CIMINO, CONSTANTINO O.	Emerson, N. J.
CIRILLO, MARIO L.	New York City
COHEN, BENJAMIN	New York City
COHEN, HENRY S.	New York City
COHEN, SAMUEL	New York City
COHN, NATHAN	New York City
CORSO, ARTHUR	New York City
COSTA, JOSEPH A.	Jersey City, N. J.
DAVIDSON, LEWIS	New York City
DEPAN, J. ROSCOE	Kingsland, N. J.
DONNELLY, WILFRED J.	Bay Shore, N. Y.
DOUGHERTY, CHARLES	Harrison, N. Y.
DUNN, BERNARD J.	New York City

DWORKIN, SAMUEL O.	New York City
ECKSTEIN, ABE D.	Passaic, N. J.
EHRLICH, ABRAHAM.	New York City
ENGEL, MORRIS.	New York City
EPSTEIN, MORRIS L.	New York City
ETTENBERG, GEORGE J.	New York City
FEIGIN, SOLOMON.	New York City
FEINBERG, HYMAN.	New York City
FEINERMAN, JACOB.	New York City
FELDMAN, PHILIP.	New York City
FELDSTEIN, BENJAMIN.	New York City
FELTUS, LAMBERT S.	Seneca Falls, N. Y.
FERACA, JOSEPH S.	New York City
FIORENTINO, PAUL J.	New York City
FLECK, JOSEPH.	Asbury Park, N. J.
FRANCESCHI, DARIO.	New York City
FRANKLIN, LOUIS.	New York City
FRIEDLIEB, JACOB.	Arverne, N. Y.
FRIEDMAN, NATHAN.	New York City
FRIEDMAN, REUBEN.	New York City
FRISCHIA, JOSEPH P.	New York City
FRYER, LOUIS.	New York City
GALLO, VINCENT A.	New York City
GARABEDIAN, RICHARD.	New York City
GEIGER, BENJAMIN.	New York City
GEIGER, HOWARD A. W.	New York City
GELRUD, HYMAN A.	Newark, N. J.
GIAQUINTO, EUGENE G.	New Haven, Conn.
GILLIAR, RAYMOND.	Great Neck Station, L. I.
GILMAN, MISS SARAH.	New York City
GITLIN, ISIDOR.	New York City
GOLDBERG, BENJAMIN.	New York City
GOLDBERG, EDWARD I.	Trenton, N. J.
GOLDBERG, MISS MARY.	New York City
GOLLIEK, WILLIAM A.	Jersey City, N. J.
GOTTESMAN, LOUIS.	New York City
GRAVES, GEORGE N.	Mohawk, N. Y.
GRAYSTONE, BIRT E.	Utica, N. Y.
GREENBERG, WILLIAM.	New York City
GREENWALD, MORRIS M.	New York City
GRIMM, HERMAN.	New York City
GROSSMAN, DAVID.	New York City
GURRY, WALTER J.	Utica, N. Y.
HAGAMAN, LEROY S.	New York City
HANIG, ALEXANDER.	New York City
HAWKINS, VERNON.	New York City
HEDDESHEIMER, HENRY E.	New York City
HELLER, JACOB A.	New York City
HENDLER, MAX.	New York City
HERCHENSTEIN, HARRY.	New York City
HIRSCH, PHILIP.	Yonkers, N. Y.
HERPOLSHEIMER, ALFRED O.	New York City
HILL, JOHN J.	Marlboro, N. Y.
HOFSTEIN, SAM.	New York City
HORVITZ, ABRAHAM.	New York City
HORWITZ, LEWIS.	Bayonne, N. J.

HOROWITZ, SAMUEL	New York City
HUARD, HECTOR, JR.	Winooski, Vt.
IMMEDIATO, PHILIP J.	New York City
ISRAEL, LEON D.	New York City
JAFFE, WILLIAM M.	Paterson, N. J.
KAHN, PHILIP	New York City
KALSCH, FRANK J.	New York City
KAMINSKI, THEOPHILE C.	New York City
KANTOR, MAX	New York City
KAPFLOW, MAURICE L.	New York City
KAUFMAN, JOSEPH B.	New York City
KEMP, EDWARD, JR.	New York City
KENNEDY, AUGUSTUS T.	New Bern, N. C.
KING, JOHN WILLIAM, JR.	Jersey City, N. J.
KIRKWOOD, THOMAS C.	Westbrook, Me.
KNEVITT, CHARLES H.	Larchmont, N. Y.
KRASNOW, LOUIS	Fall River, Mass.
KRECHEVSKY, MORRIS	New York City
KRIMKE, CARLO J.	New York City
KRONES, BENJAMIN	Passaic, N. J.
LAROSSA, ALFRED	New York City
LEE, ROBERT L.	Middletown, N. Y.
LEFFER, MORRIS M.	New York City
LEVIN, MAURICE	Newark, N. J.
LEVIN, NATHAN	New York City
LEVINE, MAX	New York City
LEVINE, SALEM	New York City
LEVINE, SAMUEL	New York City
LEVINE, MISS TILDA	New York City
LEVITT, MISS MAY L.	New York City
LICHTENSTEIN, ABRAHAM G.	New York City
LIFSHTIZ, MISS MINNIE	New York City
LINDEMANN, MISS LENA J.	New York City
LIONE, JOHN	New York City
LIPPIN, SAMUEL D.	New York City
LODEN, HERMAN	Hastings, N. Y.
LORA, MISS GUARENA	Santiago, Cuba
LOZAW, FRANK A.	Middletown, N. Y.
LYNCH, FRED D.	Deposit, N. Y.
MCGRANAGHAN, THOMAS	Hancock, N. Y.
MCINDOE, JAMES F.	Lonaconing, Md.
MAGGIO, MICHAEL A.	New York City
MALACHOVSKY, SAMUEL	New York City
MARASHLIAN, HOVHANNES S.	Tarsus, Turkey
MARGOLIES, CHARLES W.	New York City
MARGULIS, GEORGE	New York City
MARTIN, GEORGE A.	New York City
MAZZONI, RAIMONDO	New York City
MELTZER, BENJAMIN M.	New York City
MENDELSON, ISRAEL	New York City
MENDIOLA, JOSEPH	Camaguey, Cuba
MEREDITH, HARRISON O.	New York City
MERRIT, THEODORE	Beacon, N. Y.
MICHAEL, ABNER	New York City
MILHAUSER, LEON	New York City
MILLER, D. SHELDON	Amagansett, N. Y.
MILLER, JACOB	New York City

MILLER, SAMUEL J.	New York City
MOLICA, ITALO.	New York City
MOLICA, LOUIS V.	New York City
MORRIS, WILLIAM C.	New York City
MOSKOWITZ, CHARLES	New York City
MUTCHNICK, JOSEPH	New York City
MYERSON, MISS DAISY	New York City
NARDONE, NICHOLAS	New York City
NEERGAARD, WILLIAM	New York City
NEIMETH, JACOB	New York City
NISSSELSON, ABRAHAM	New York City
NOLAN, JOSEPH F.	Westport, Conn.
OREFICE, VICTOR M.	New York City
PALMER, HALSEY L.	Oneonta, N. Y.
PETRELLA, GABRIEL	New York City
PIANTIERRI, RALPH E.	New York City
PICA, ALFRED	New York City
PINNES, SAMUEL	E. Setauket, N. Y.
PORTNOW, DAVID E.	New York City
PRETZELL, PAUL	Bonn, Germany
PROTE, JOSEPH C.	Astoria, L. I.
RABINOWITZ, LAZAR	New York City
RAMPULLA, JOSEPH J.	New York City
REICHARDT, GEORGE P.	Utica, N. Y.
REIDER, JULIUS	New York City
RIPOLI, SILVIO L.	New York City
ROSE, MISS SOPHIA	New York City
ROSENBERG, DAVID	New York City
ROSENGUARD, MAURICE	New York City
ROUDIN, MISS HELEN F.	New York City
RUBINFELD, SAMUEL A.	New York City
RUBY, ISIDOR	Minsk, Russia
RUDERMAN, JACOB	New York City
SACHS, JOSEPH	New York City
SALTZ, RAPHAEL A.	New York City
SAMMARCO, ETTORE	Port Chester, N. Y.
SANKER, SAMUEL	New York City
SARLI, WILLIAM	New York City
SCHEINTLINGER, MORRIS	New York City
SCHIMANSKY, MISS IDA	New Brighton, N. Y.
SCHNEIDER, LAWRENCE V.	Kingston, N. Y.
SCHOENBERG, PAUL	New York City
SCHULTZ, LOUIS	New York City
SCHWARTZ, DAVID	New York City
SCHWARTZ, MAURICE	New York City
SCILIPOTI, LUDWIG W.	New York City
SENF, WILLIAM J.	New York City
SHAPIRO, MOSES	New York City
SIENA, WILLIAM R.	College Point, N. Y.
SILVERMAN, MISS HENRIETTA	New York City
SINCLAIR, EVERETT	Westbrook, Me.
SIRKIN, JACOB	Newark, N. J.
SMEDIRA, NICHOLAS A.	New York City
SMITH, EDWIN J.	New York City
SMITH, HAROLD A.	Castleton, Vt.

SMITH, IRVING L.	New York City
SMITH, PAUL J.	Ossining, N. Y.
SMITH, WALTER A.	Danbury, Conn.
SNYDER, ALFRED C.	Patchogue, L. I.
SOLOSKO, MISS ANNA.	New York City
SOLOW, MORFIS A.	New York City
SOMERS, CHARLES J.	Jersey City Heights, N. J.
SPOTTISWOOD, WILLIAM.	New York City
STARK, JOSEPH.	New York City
STEENBURGH, EUGENE M.	Newark, N. J.
STEINHARDT, ABRAHAM.	New York City
STEVES, BERTRAM C.	Galveston, Texas
STOLL, GEORGE.	West New York, N. J.
SVIGELSKI, DAVID.	New York City
TADDONIO, ANTHONY J.	New York City
TAUB, RAPHAEL.	New York City
TAUB, SAUL.	New York City
TAYLOR, GEORGE E.	Westbrook, Me.
THALER, EDWARD I.	New York City
THOM, MRS. EDITH M.	New York City
THOMPSON, ARTHUR E.	New Brighton, N. Y.
TROY, JOHN J.	West Stockbridge, Mass.
VALVANO, JOHN A.	New York City
VISCARDI, FRANCIS P.	New York City
VIRDEN, GEORGE D.	New York City
WALLACH, BENJAMIN E.	New York City
WARD, CLIFFORD E.	Westbrook, Me.
WARFMAN, SAMUEL.	Utica, N. Y.
WEINSHENKER, ISRAEL.	New York City
WEINSTEIN, ABRAHAM.	New York City
WEISS, FREDERICK.	New York City
WENGLE, WILLIAM.	New York City
WHELOCK, RALPH L.	Hancock, N. Y.
WIDOFF, PHILIP.	New York City
WILLIAMS, EYNON H.	Cardigan, Wales
WIRTENBERG, HERMAN.	New York City
YOUNG, ALFRED G.	Ilion, N. Y.
ZEROFF, MAX H.	New York City
ZUCKER, LOUIS W.	Hoboken, N. J.

[269]

POST-GRADUATE CLASS

ACKERMAN, EDWIN B.	New York City
CABRERA, RAPHAEL.	Managua, Nicaragua
FLETT, RAYMOND L.	Atlantic Highlands, N. J.
GUERRIERI, PASQUALE.	Newark, N. J.
PLANTEN, JOHN R.	New York City
TRAUB, ADAM J. A.	Elizabeth, N. J.
WIENER, JACOB H.	Rockaway Park, N. Y.

[7]

FOOD AND DRUG CLASS

ETTINGER, JEROME E.	New York City
MCINDOE, JOHN G., JR.	Lonaconing, Md.
WRIGHT, SAMUEL B.	Salisbury Mills, N. Y.

[3]

SUMMARY

First-year University Class.....	29
Junior College Class.....	269
Seniors.....	170
Post-graduates.....	7
Food and drug.....	3
	<hr/>
Total.....	478.

SUMMER SESSION

The fourteenth Summer Session of the University opened July 7, 1913, and closed August 17. The registration days for the Summer Session were July 3 and 5. Examinations for certificates were held on August 15. **General Statement**

Courses were offered to men and women on equal terms, in agriculture, anthropology, architecture, assaying, astronomy, biology, bookkeeping, botany, chemistry, corporation finance, domestic art, domestic science, economics, education, engineering, English, fine arts, freehand drawing, French, geography, geology, German, Greek, history, history of religion, household arts, industrial arts, Italian, kindergarten, Latin, law, library, economy, manual training, mathematics, mechanical drawing, mechanics, medicine, metallurgy, mineralogy, music, philosophy, physical education, physical geography, physics, physiology, politics, psychology, public speaking and oral reading, religion, Romance languages, sociology, Spanish, stenography and typewriting, and zoölogy.

Evening courses were also offered in the following subjects: architecture, bookkeeping, economics, English, French, mathematics and stenography.

Each course consisted of thirty-one lectures or other exercises, or their equivalent in laboratory or field work. Credit for such courses in the Summer Session as are accepted by the several Faculties of the University in partial fulfilment of the requirements for degrees, or for diplomas in teaching is given upon the satisfactory completion of the course, including the final examination.

FEES (see page 47)

The tuition fee for the summer Session is \$30, which covers courses of instruction aggregating six points credit, the normal limit allowed by the regulations.

For the *Announcement* of the Summer Session of 1914, which will open July 6 and offer a wide range of courses, or for information regarding dormitory accommodations, or board and lodging, address the Secretary of Columbia University, New York.

Copies of the separately printed *Directory of the Summer Session, 1913*, may be had upon the payment of ten cents, plus postage. Application for same should be made to the Secretary of the University. In this catalogue, at the close of the Register of Students under each Faculty, will be found a list of the Summer Session students of 1913 who matriculated under that Faculty, but who did not return to register in September. **Registration, 1913**

Summary	I. Non-matriculated.....	2538
	II. Matriculated:	
	1. Columbia College.....	179
	2. Barnard College.....	65
	3. Mines, Engineering and Chemistry.....	147
	4. Law.....	99
	5. Medicine.....	4
	6. Fine Arts.....	16
	7. Political Science.....	124
	8. Philosophy*.....	675
	9. Pure Science.....	100
	10. Teachers College.....	584
	11. Journalism.....	8
		2001
		<hr/>
		4539

* Including 355 students with education as a subject of major interest registered under the Faculty of Philosophy through Teachers College.

EXTENSION TEACHING

The statutes of the University define Extension Teaching as instruction given by University officers and under the administrative supervision and control of the University, either away from the University buildings or at the University, for the benefit of students unable to attend the regular courses of instruction.

**General
Statement**

Courses in Extension Teaching are planned for two classes of students: *first*, men and women who can give only a portion of their time to study and who desire to pursue subjects included in a liberal education of the character and grade of a college or professional school, but without any reference to an academic degree; *second*, those who look forward to qualifying themselves to obtain in the future academic recognition, involving acceptance of the work which they may satisfactorily complete in Extension Teaching.

Students

Students who are duly admitted to Extension courses but are not candidates for a degree or diploma are termed *non-matriculated* students. Students who have completed the requirements for admission and have been formally admitted by or in behalf of the Faculty concerned as candidates for a degree or diploma are termed *matriculated* students.

Under the direction of the University Council courses are offered in Extension Teaching which count toward the degree of Master of Arts.

**Courses of
Instruction**

Regular courses of instruction are offered in Extension Teaching which in many instances are coördinated so as to form at least the first year of collegiate and professional work, thus providing in the evening at Morningside Heights, and elsewhere, courses in subjects which are generally offered in the Freshman and Sophomore years of college, so that students may qualify themselves for admission with advanced standing to Columbia College and Barnard College as candidates for the degrees of A.B. and B.S.

There are also offered at Morningside Heights in the evening subjects which are given in the Schools of Mines, Engineering and Chemistry, so that a student may pursue some special line of scientific study or prepare himself for the second or third year in these schools. After 1914 courses in these schools will be open only to those who have had a preliminary course of three years in Columbia College or the equivalent. This preliminary collegiate course may be taken in part or in full in Extension Teaching in the evening by students engaged in business during the day.

Evening courses are offered in architecture at Morningside Heights and Brooklyn which correspond to the courses of the Columbia University School of Architecture.

Evening courses in commerce and finance, forming a three-year course leading to a certificate in commerce and preparing for the State examination for the certificate of Certified Public Accountant, are given at Morningside Heights.

A series of courses intended to equip students for the position of secretary is also offered. The completion of these courses require three years or high school graduates and at least one year for college graduates.

Many courses are offered which aid a student to prepare for the Schools of Law, Medicine and Journalism or to complete his preparation for Columbia College or for the scientific schools.

A two years' course in practical optics is offered in coöperation with the Department of Physics for the special training of those who expect to become optometrists.

Courses are offered in agriculture for those who desire special work in that subject.

A large number of other courses in varied subjects is given late in the afternoon and on Saturday which repeat those in liberal studies offered in the Colleges of the University. These are given in the same manner and often by the same instructors as the regular courses. In many instances university credit is granted.

Numerous courses are given at various centres. These are either regular courses of collegiate grade or lecture-study courses in certain subjects forming fifteen lectures for the half-year or thirty lectures for the year, alternating with quiz or conference hours, given at Morningside Heights and at centres when requested.

Centres for the study of choral music are maintained at Morningside Heights, Brooklyn and Yonkers, and choral concerts are offered during the year.

Registration Students who expect to attend at Morningside Heights are required to register at the office of the Registrar, 201 East Hall, 116th Street and Amsterdam Avenue. A student in Extension Teaching will register for one half-year and is required to renew his registration in person at the beginning of the second half-year.

Matriculated students in the various schools of the University will be allowed to attend courses in Extension Teaching in accordance with the regulations of the several schools; they must, however, register and pay the fees in the same way as other students in Extension courses.

Fees All students, matriculated or non-matriculated, admitted to Extension courses, must pay at the time of registration the fees determined by the

Administrative Board. The fees for Extension courses are determined, as a rule, at the rate of \$5 per point, *i. e.*, for one hour per week of classroom work, or two hours of laboratory or drawing-room work, through a half-year. All students must pay a registration fee of \$5.00, which is payable but once in the University. Students taking six points each half-year have the privileges of the library, and, in the case of men, the gymnasium. A student may use the dormitories if he registers for courses aggregating ten points, maintains a grade of C in all subjects and attends nine-tenths of the sessions in each half-year.

Courses in Extension Teaching, approved by the Committees on Instruction in Columbia College, Barnard and Teachers College are credited for matriculated students toward the degrees of A.B. and B.S., toward the degree of B.S. and the diplomas in Teachers College, and toward degrees in other professional schools in accordance with the regulations established by the various faculties.

Courses in Extension Teaching, approved by the Executive Committee of the University Council, will count toward the degree of Master of Arts.

No examination is required for admission to courses offered in Extension Teaching but students must satisfy the Administrative Board that they can pursue the courses with advantage. It is expected that the prospective students in all collegiate and professional courses shall have had a full secondary school education. The courses are open, unless it is otherwise stated, both to men and women. **Admission**

Collegiate and professional courses will be given at Columbia University; Brooklyn (Prospect Heights School, 51 Seventh Avenue); Elmhurst (Newtown High School); Jersey City (William L. Dickinson High School); Paterson (Paterson High School); Norwalk (South Norwalk High School); Springfield (Central High School); Stamford (Stamford High School); Trenton (Carroll-Robbins Training School); and wherever classes of sufficient numbers may be gathered. **Location**

For detailed information as to the places and hours for these courses, both at the University and at the several local centers, the qualifications for admission, the regulations for registration, candidacy for degrees, diplomas, attendance, and examinations, the fees prescribed, and for a statement of each course offered, see the *Announcement of Extension Teaching, 1913-14*, which may be obtained without charge upon application to the Secretary of the University.

The Institute of Arts and Sciences was established by action of the Trustees on February 3, 1913, to enable the University to serve busy men and women and people of leisure by means of a program of lectures, **Institute of Arts and Sciences**

concerts, readings and recitals in the late afternoon and evening throughout approximately the academic year. The membership at present is 1200. The enrollment fee is \$5 and the annual dues \$10. Membership is open to all without restriction. Memberships are received at any time and are good for one calendar year. The lectures are given singly or in series of not more than six. The object is to provide instruction, culture and entertainment with an educational purpose, without any reference to academic credit. The special *Announcement* of the Institute will be sent on request.

DEGREES CONFERRED DURING 1912-13

Degrees are conferred at the October and January meetings of the University Council and on Commencement Day.

Bachelor of Arts: MIGUEL EDUARDO DE AGÜERO, JR.,* THOMAS JAMES AHEARN, **Columbia College** JR.,* EMIL NATHANIEL BAAR, DAVID SPENCER BALL, PHILETUS COOLEY BANKSON,* BEACH BARRETT,† WILLIAM LEONARD BERK, ALFRED L. BERNHEIM, BERNARD BERNSTEIN, J. MALCOLM BIRD, with high honors in History, Mathematics and English Language; GEORGE MOFFAT BRAMWELL,* ARNOLD J. R. BROCK, FRANK J. BROWN, ABRAHAM BURSTEIN, GEORGE FORREST BUTTERWORTH, JR., with high honors in English Literature, Mathematics and History; GEORGE DANFORTH CALDWELL, ARCHIE AUSTIN COATES, CLARENCE IRVING COHN, ELBRIDGE COLBY,* with high honors in English Literature and History; CHARLES A. COLE, HENRY DIX COLE, RALPH COLP, MORRIS COOPER, JR., WESLEY CINTRA COX, GLENN BROWN COYKENDALL, HAROLD WARREN CRANDALL, ALLEN BENJAMIN CROW, with honors in Philosophy and Sociology; VINCENT EDWARD CURRY, DOUGLAS PERRY DICKIE, ARTHUR MASON DU BOIS, BEN HUNTER DWIGHT,* JAMES LEE ELLENWOOD, GABRIEL ENGEL, MYRON WEISMAN EKSTEIN, CORNELIUS FERSCH, TRACY RICHARD VANDERBILT FIKE, NATHAN FINE, WILLIAM WASHINGTON FORSTER, VICTOR PHILIP FRANK, GEORGE FRIOU, CALVIN SHEARMAN GLOVER, MICHAEL GOTTESMAN, DAVID BENJAMIN GREENBERG, EGBERT BRADNEY GRIFFIN, ACTON GRISCOM, LUDLOW GRISCOM,* GOVE JAY HAMBRIDGE, JOSEPH HENRY HEWETSON, PINCUS HIRSBOCKF, TIMOTHY N. HOLDEN, SEYMOUR PHILLIPS HOUGHTON, MAXWELL HYMAN, HENRI CASIMIR JACQUES,* SANDFORD JAKES, MILTON KADISON,† MICHAEL KAPLAN, GÜNTHER KEIL,† EMANUEL DAVID KING, ROBERT MCCORKLE KING, EUGENE KLEIN, WALTER JOSEPH KLOSTER, JULIUS FREDERIC KROLFIFER, STANLEY VAUGHAN LA DOW,† WILLIAM STEWART LAHEY, ERNEST BEATTIE LAWTON, ISRAEL LEBENDIGER,† ALBERT LEVITT, with honors in English Literature and Philosophy; JEROME LEVY, CLARENCE LESLIE LEWIS, JACOB J. LIND, with highest honors in Latin and English Literature; JOHN THEODORE LITTLE, SIDNEY M. LOUIS,† ROWLAND ROBBINS McELVARE, EDWARD LAURENCE McKENNA,† JACOB MANN, SIDNEY MARCUS, PIERCE MARION,† DAVID H. MOSKOWITZ, with high honors in Mathematics and Latin; JACOB LAFFER MULWITZ, ISAAC NANKIN, PAUL MORGAN OGILVIE, HYMAN AARON OSSERMAN, ROGER STERNE PALMER,* IRVING HOTCHKISS PARDEE,† JAMES OTIS PARSONS, CHARLES PEARLE, FREDERICK LEHMAN PHELPS, BERNARD PISTNER, KARL PROPPER, LYNN POWERS REED, EDWIN HEWETT REEDER, CHARLES ERNEST REUTTER, ROBERT HENRY REUTTER, WILLIAM JOSEPH ROSENTHAL, JAY LEO ROTHCHILD,* SAMUEL SACHS, FRANK ISAAC SCHECHTER (June 5, 1912); SIMON HAAS SCHEUER,† WALDO WHITE SELLEW, NATHAN SHANKS, HENRY VOGEL SHELLEY, JR., GERALD SPENCER SHIBLEY, AMOS REGINALD SHIRLEY,* RALPH HANDS SINCLAIR, ALEXANDER SLATER,† ALAN DEFOREST SMITH, THOMAS AYRES SPARKS,* MALCOLM GRAEME SPOONER, GEORGE RAYNOLDS STEARNS, JR., EDWARD LOUIS STECKLER, LAURENCE ADOLPH STEINHARDT, IRWIN DERNHAM STRAUSS, GEORGE TONKONOGY, JR., HORATIO NELSON TRAGITT, JR., EUGENE MAURICE UNTERMYER, IRVING VALENTINE, CUTHBERT MELROSE WATSON,† WILLIAM CORNELL WEEKS, MILTON WEILL, JOHN HENRY WELLENKAMP, WALLACE WHITE, JAMES PERRY WILSON, SINCLAIR JOSEPH WILSON, BURTIS NOBLE WINDSOR,* ABRAHAM WOLK, FREDERIC DAVID ZEMAN, with highest honors in German and Chemistry; DAVID ZUKERMAN.

[127]

*October, 1912 †February, 1913

Bachelor of Science: ISAAC AARONSON,† CARLYLE REGINALD BARNETT, JAMES GAGE BREMER, JR., HILMAR JULIUS BESTUL, ALBERT COURTLAND BITTNERMAN, EPHRAIM MICHAEL BLUESTONE, SIDNEY S. BOBBÉ, A. LEON BRAUS, GEORGE CHARLES BUCHTENKIRCH, RUSSELL VIETOR BURKHARD, JAMES HOWELL BYRNES, WILLIAM MONTGOMERY CAMPBELL, CHARLES HARRY CHASE, CHESTER IRVING CHRISTIE,* HERBERT HOMER CLYNE,* GEORGE WARREN CURTISS, ELLIOTT HAWKRIDGE DOWNES, WILLIAM BRUNO EBERLING,* ELIAS FEINSOD,* JAMES WILFORD FOOTE,† ROBERT HUBERT FRECH, JAMES NELSON BURNES GATCH,† WILTON JOHN GATES, HYMAN GREENBERG,* DALLAS WAY HAINES, WILLIAM HERRLICH,* ROLAND ALEXANDER HILLAS, MARTIN HOLZMAN, NATHAN CALEB HOUSE, with honors in Botany and English Literature; FREDERICK WILSON INGALLS, DAVID E. KAMAICKY, JOHN CHARLES KEMPVAN BE, JR.,† MORRIS KINNEY,† ABRAHAM KROLL, with high honors in Zoölogy, Botany and Chemistry; WALTER SCOTT KUPFER, WALTER LOGAN, GABRIEL ABRAHAM LOWENSTEIN,† WILLIAM BENNETT MARKS, WALTER REICHOLD MOHR,† CHARLES CRAIG MOOK,* with high honors in Geology and Zoölogy; PARKER LEROY MOON, with highest honors in History and Mathematics; ARTHUR MUTSCHELLER,† WILLIAM ALEXANDRE PERLZWEIG, CLARENCE PERSON, SOL PINCUS,† JOSEPH PRICE, ROBERT REICHMAN, HOWARD WRIGHT REILLY, KARL DAVIS ROBINSON,* GUSTAVE SCHLOTTMAN, HERMAN SHARLIT, IRVING DAVID SMITH, ROBERT STRINEMANN,* ARTHUR HAYS SULZBERGER, WILLIAM JUDSON TIMMONS, LOUIS TISHMAN,† ALBERT VALENSI, WILLIAM HERMAN WACK, ALEXANDER WEINSTEIN, STANLEY D. WINDERMAN, TANG YOUNGLEE.†

[61]

Barnard College Bachelor of Arts: FLORENCE DE NOYELLES ANDERSON,* NATHALIE VICTORIA ARMSTRONG, JENNIE GABRIELLE AUERBACH,† MARTHE ROSALIE LAURE BALLOT, EDITH FRANCES BALMFORD, EDITH ROSENBLATT BARNETT, ALICE BARRETT, LOUISE HELENE BARTLING, HELLA FELICITAS BERNAYS, BEULAH IRENE BISHOP, ALICE GUNDESEN BROWN, GRACE BROWN, MADELAINE EMILY BUNZL, ESTHER LOIS BURGESS, CLARA BUTTENWISER, CONCETTA LOUISE CAGLIOSTRO, MARION ELISABETH CALLAN, GERTRUDE NEUSE CAMPION, ROSEMARY CLARKE, LOUISE COMES, CATHERINE ETHEL CRADDOCK, HELEN MARGARET CROSBY, IRENE LOUISE DALGLEISH, HELEN MANLEY DANA, RUTH MIRIAM DAVIS, AMY GRACE DESSAR, DOROTHEA VON DÖNHOF,† ISABELLA PRESTON DOUGLAS, BESSIE DOWNS, MARGUERITE ELIZABETH VAN DUYN, ALBERTA CAROLINE EDELL, NANNIE MELL EMERSON, VERA ELIZABETH FEELEY, DORIS ELSA FLEISCHMAN, EDITH JOSEPHINE FLEMING, HELEN AUGUSTA FOLAND, ETTA BELLE FOX, MARJORIE LORNE FRANKLIN, IRENE LOUISE FREAR, RHODA FLORENCE FREUDENTHAL, EMMA FRIEDER, ETTA VIOLET FRIEND, IRMA HENRIETTA VON GLAHN, MARIETTE LOUISE GLESS, ETHEL BELLE GOEDE, HARRIET LOIS GOLDMAN, REBECCA GOLDSTEIN, SAIDA ELSA GOTTLIEB, MARY ZELLA GOUGH, MAY SUNNEVA GREENWOLD,* MIRIAM BATHSHEBA GRENELLE, EDITH HALFPENNY, NAOMI HARRIS, GLADYS STELLA HASBERG, ETHEL MAY HAWKEY, MAY SYLVIA HESSBERG, RITA HILBORN, MARY ANNA HILDEBRAND, MARY HILLAS, PAULINE HORKHEIMER, VIRGINIA HOUGH,* ELEANOR GREGORY HOUGHTON, EMMA SOPHIA HUBERT, MARY AGNES HUBERTY, IMOGENE BELLE IRELAND, EDITH LYDIA JONES, BERTHA JUNGHANS, MARGUERITE JEANNETTE KALT, MOLLIE KATZ, MARGARET FRANCES KELLEY, DOROTHY KINCH, OLGA LACEY,* PAULINE LATZKE,† MARGARITA EMILY LELAND, RACHEL HARRIET AMANDA LELAND, SOPHIE CLAIRE LINGG, THERESA LINT, PRISCILLA LOCKWOOD, VIRGINIA BELLE MCGIVNEY, BESSIE NELSON MACDONALD, AUGUSTA MAGID, CLAIRE HAZEL MARTIN, SUSAN BROWN MINOR,* GERTRUDE ELIZABETH MORRIS, AMELIA ROBINSON MUMFORD, MARY BATTLE MUMFORD, IRENE CECILIA MURPHY, ANNA CONWAY NEACY,† MARGUERITE NEUGASS,† MARION ROSE NEWMAN, SOPHIA NEWMARK, KATHARINE NOBLE, ELEANOR MARGUERITE OERZEN, RUTH ANNA OSTERBERG, EDDIE THOMAS PARKS, ANNABELLE PAWLEY, MARY PAXTON, GRACE MADELEINE PEARSON,† SALLIE EUGENA PERO, HELEN COOK PLUMMER,* LUCY REED POWELL, LILLIE REILLY, BEATRICE REYNOLDS,

*October, 1912

†February, 1913

MARGARET CECILIA RICHEY, MARJORIE ROBINSON, LEONTINE SAGE, ANNA BEATRICE SALZMAN, JANE MARY BLAKE SAVAGE, ELSA HENRIETTA DOROTHEA SCHUBERT, HARRIET SEIBERT, LEONORE REGINA SHANNON, JEAN MACLEAN SHAW, MARY MOLTON SISTRUNK, MURIEL GLADYS SLADE, GRETCHEN LOUISE SMITH, JOAN LOUISE SPERLING, ALENE STERN, MARY WOTHERSPOON STEWART, JEANNETTE RUSSELL STOBO, CHRYS-TENE STRAITON, JEAN GRAHAM TOWNLEY, VIOLA TURCK, RUTH MITCHELL TYNDALL, BRENDA UELAND, IRMA UNTI, MARIA CRISTIANA DIAZ DE VILLALVILLA,† SARAH GRAHAM VOORHIS, MARY VOYSE,† LILLIAN ADELE WARING, MARGARET WICKHAM WATSON, BERTHA WEAVER,† ETHEL WILLARD WEBB, VARIAN WHITE, HARRIET ELVIRA WILMOT, ROSE BELLE WOOD, ANNA BELLE WOOLWORTH.

[136]

Bachelor of Science: CELESTINE MAXWELL, JOSEPHINE CECILE MELSHA,† EMMA LOUISE RAPELYE.†

[3]

Bachelor of Laws: ALBERT ATWOOD ACHESON, B.L.; WINFRED C. ALLEN, A.B.; **Law** JOHN FRANCIS ALVINO, A.B.; LAURENCE HENRY AXMAN, A.B.; ROBERT HAROLD BAGNELL, A.B.; FRANCIS NATHAN BANGS, A.B.; THOMAS HUNT BARBER, A.B.; CHARLES HOBBY BASSFORD, B.S., A.M.; NORMAN MAX BEHR, A.B.; SIDNEY BENDER, A.B.; EPHRAIM BERLINER, A.B.; ROBERT CARL BRANDT, A.B.; HYMAN BRODSKY, A.B.; HAROLD STUART BROWN, B.S.; LYMAN C. BUTLER, A.B.; EARLE CLARK CALHOUN, A.B., LL.B.; HAROLD GILMORE CALHOUN, A.B.; J. FRANCIS CARLIN, A.B.; EDWARD Q. CARR, A.B.; CARMINE WILLIAM CARUSO, A.B.; RALPH GEORGE COAD, A.B.; T. HUGHES CODY, A.B.;† GEORGE LIONEL COHEN, A.B.; SAMUEL MICHAEL COHEN, A.B.; GARDINER CONROY, A.B.; CHARLES LE SUEUR CORNELIUS, A.B., A.M.; FREDERIC B. COLVER, A.B.; ROBERT BARTOW COUSINS, JR.; GEORGE BROKAW COMPTON, A.B.; JOSEPH FORCE CRATER, A.B.; R. BERNARD CRISPELL, A.B.; HARRY THOMPSON DAVENPORT, B.L.; WALTER FESTUS DAVID, A.B.; WILBUR FISK DAVIS, A.B.; ALBERT DE SILVER, A.B.; JAMES EDWARD DUGGAN, A.B.; JOSEPH FRANCIS EBERT, A.B.; MEYER EICHMANN, A.B., A.M.; MAURICE EPSTEIN, A.B.;* ROBERT SCARBOROUGH ERSKINE, A.B.; PERLIE PETER FALLON, A.B.; LEONARD FARKAS, B.S.; HENRY BARTOW FARR, A.B.; WILLIAM MANUEL FARR, A.B., A.M.; FRANK JULIUS FELBEL, A.B.; FRANKLIN POMEROY FERGUSON, A.B.; EVERETT THORNTON FINDLEY, A.B.; RICHARD FONDILLER, B.S., A.M.; MAX FRANK, A.B.; FRANK FRITTS, A.B., A.M.; ROLAND JONES GEORGE, A.B.; WILLIAM FRANCIS GIBBS, A.M.; EDWIN LAWRENCE GLUCK, A.B.; EDWARD SAMUEL GREENBAUM, A.B.; MILTON GREENEBAUM, B.S.; ABRAHAM MAURICE GRILL, A.B.; ISADOR HABER, A.B., A.M.; SHERWOOD ESTABROOK HALL, A.M.; JOHN PATRICE HARTIGAN, A.B.; CHARLES E. HEALY, A.B.; HENRY F. HERBERMANN, A.B.; CHARLES EDWIN HOBART, A.B.; HARRY D. HOLDEN, A.B.; THOMAS EVERETT HUSER, Ph.B.; CHARLES FREDERIC JEFFERSON, A.B.; HUGER W. JERVEY, A.M.; ALBERT FELIX KAHN, Ph.B.; JOHN HOWARD KEIM, A.B.; WILLIAM RAYMOND KELOGG, A.B.; THEODORE KIENDL, JR., A.B.; LE ROY KING, A.B.; RICHARD CARL KLUGESCHIED, A.B.; FREDERICK S. KNIGHT, A.B.; LEO KOENIG, A.B.; SAMUEL SEYMOUR KORN, A.B.; HARRY C. LANGLAND, A.B.; SAMUEL LEVINE, A.B., A.M.; LOUIS MARTIN LEVY, A.B.; GARDNER PLEASANTS LLOYD, A.B.; WILSON MCCARTHY; FRANCIS H. MCADOO, A.B.; THOMAS EMMET MCENTEGART, A.B.; JAMES P. MCMANUS, LL.B.; JOHN HAMILTON MARCHMONT, A.B.; HUA-CHUEN MEI, B.S.;† STUART TEN BROECK MORRISON, A.B.; RANSOM NOBLE, A.B.; FRANK PASCARELLA, A.B.; THOMAS A. PERRY, JR., B.S.; GEORGE EMERSON PETTIT, A.B.; FRANCIS S. PHILBRICK, B.S., A.M., Ph.D.; CHARLES HOMER RAMSDELL, A.B.; WILLIAM EMANUEL RICHARDSON, A.B.; ERNEST SPENCER ROCHE, A.B.; VINCENT HAROLD ROTHWELL, B.S.; GABRIEL RUBINO, A.B.; CLINTON JOSEPH RUCH, A.B.; JOHN POWER RYAN, A.B.; ARNOLD MOSES SCHMIDT, A.B.; HENRY GEORGE SEIPP, A.B.; RAYMOND BRANCH SEYMOUR, A.B.; ANDREW ROMAINE SHILAND, A.B.; BERTRAM FRANCIS SHIPMAN; ABRAM SILVERMAN, A.B.; HARRY HUSE SKERRITT,

*October, 1912

†February, 1913

PH.B.; HENRY MONTAGUE SMITH, JR., A.B.; RAY PATTON SMITH, PH.B.; ROSWELL HIRAM STEELE, A.B.;* LAURENCE CLARKSON STRYKER, A.B.; MARTIN TAYLOR, LITT.B.; CLEVELAND M. THORNE, PH.B.; RUSSELL WEBSTER TODD, A.B.; THEODORE MILLS TONNELÉ, A.B.; ANTHONY J. TOUART, A.B.; DALLAS SELWYN TOWNSEND, A.B.; CHARLES JOSEPH TURCK, A.B., A.M.; ELKAN TURK, A.B.; WILLIAM THOMAS VAN ALSTYNE, PH.B.;† ARTHUR T. VANDERBILT, A.B., A.M.; ERNEST HARVEY VAN FOSSAN, A.B.; THADDEUS WELLINGTON VENESS, A.B.; GEORGE SNYDER WARD, A.B.; WILBERT WARD, A.B.; WILLIAM THOMAS WEBBER, A.B.; RICHARD FRANKLIN WEEKS, A.B.; EDMUND CHARLES WENDT, A.B.; IRWIN WHEELER, B.S.; ERNEST WILLIAM WILFERT; A.B., A.M.; HOWARD CHARLES WILSON, A.B.; CHARLEMAGNE TOWER WOLFE, PH.B.; HERBERT ALFRED WOLFF, A.B.; GEORGE M. WOLFSON, A.B.; IRA WOLLISON, A.B., FREDERICK HEARNE WOOLEY, A.B.; B. V. T. WORTHINGTON, A.B.; CLARENCE STOLL ZIPP, B.S.; FREDERICK ZORN, A.B.

[137]

Medicine **Doctor of Medicine:** LEOPOLD ADAMS; CHARLES INSLEY ALLEN, B.S.; JAMES WOODS BABCOCK, LITT.B.; EDGAR WILLIAMS BECKWITH, B.S.; WILLIAM FREDERICK BENDER; CLARENCE E. BOUDREAU; CHARLES BRANCATI; EZRA RALPH BRIDGE, A.B.; ALEXANDRE BRUNO, B.S.; JOHN HOWE CARLISLE, A.B.; CHARLES EDMUND CARR, A.B.; FRANK CLYDE CARR; JOHN BAPTIST CASALE; LUIGI CELANO; CHARLES PORTER CHANDLER, A.B.; HUGH CHAPLIN, LITT.B.; MORRIS HOLDON CLARK; JEFFREY DANIEL CHARLES COLLICA; WARREN ALFRED COLTON; ROBERT THOMAS CORRY; CALVIN BREWSTER COULTER, A.M.; JAMES MATHESON DAVIS, B.S.; SALVATORE DI PALMA; HEMAN LAWRENCE DOWD, A.B.; ALLISON HAROLD DUGDALE, B.S.; FRED WARD EASTMAN, A.B.; LOUIS ROBERT EFFLER, A.B.; EDWARD PERCY EGGLE, A.B.; HARRY JOSEPH ESTRIN; TRACY FARNAM; CLARENCE SANFORD FAULKNER, A.B.; MOSES MURRAY FEINBERG, A.B.; JUDSON COOK FISHER, PH.B.; FRANK H. FRUCHTMAN, B.S.; WILLIAM HENRY GAUL, PH.C.; VINCENT GILIBERTI; JAMES FRANCIS GRATTAN, A.B.; ZADOC LAWRENCE GRIESEMER, A.B.; LEIZER GRIMBERG (October 18, 1911); CHARLES HENRY GRUBE HAAKE; DAVID ALEXANDER HALLER, A.B.; LESLIE ST. CLAIR HAYS, A.B.; WILLIAM BARR HETZEL, A.B.; MARK HORNSTEIN; GUY SWINBURNE HOUGHTON, A.B.; EMILIO FILIBERTO IORIO; EDWARD ALLEN JENNINGS, PH.B.; BRUCE LEIGH JONES; WILLIAM NEELY KEITH, A.B.; WILLIAM ALVIN KELLOGG, A.B.; WILLIAM ALLEN KNIGHT, B.S., B.D.; DAVID EDWARD KRONMAN, B.S.;* MONROE BRADFORD KUNTSLER, B.S.; MAURICE LENZ; HORACE HUTCHINS LESEUR, A.B.; SOLOMON LEVINE; JAMES A. LOGGINS, A.B.; ALEXANDER LEON LOURIA, B.S.; HARRY LOWENS; GEORGE MINER MACKENZIE, A.B.; EDGAR MAYER, A.B.; NORMAN BEATTIE MCWILLIAMS, A.B.; TOM SPERRING MEBANE; VIRGINIUS MINERVINI; JOSEPH MISTRETTA; WILLIAM MOITRIER, JR., A.B.; JOHN GEORGE O'LEARY, A.B.; EDWARD WARREN PAINE; SAMUEL PALEG; JOHN PUNNETT PETERS, JR., A.B.; WILLIAM GILES PHIPPS; HARRY PLOTZ; HOWARD WIELAND POTTER; WYTHE MUNFORD RHETT, B.S.; NATHAN ROSENTHAL; LEO LIPÓT ROTH; JOHN FRANCIS SAGARINO, PH.B.; IRVING JESSE SANDS; FREDERICK M. SCHWÉRD; EVERETT WILLIAM SHANK, A.B.; LOUIS GERSHON SHAPIRO; HOWARD FRANCIS SHATTUCK, A.B.; EDWARD BURNSIDE SIMMONS, B.S.; HENRY ROBERTSON SKEEL, A.B.; HENRY JAMES SPENCER, A.M.; WALTHER CHARLES AUGUST STEFFEN; RICHMOND STEPHENS, B.S.; LLOYD STICKLES, A.B.; ERNEST GOODRICH STILLMAN, A.B.; SPENCER GOLDSMITH STRAUSS, A.B.; AUGUSTUS STREET; GEORGE MCQUEEN STREET; SAMUEL SWIFT, A.B.; FENTON TAYLOR, A.B.; GRANT THORBURN, A.B.; LESTER JARECKY UNGER, A.M.; HAROLD WENTWORTH WELLINGTON; AUGUST FRANK ALBERT WIGGERS, PHAR.D.; JOHN EDWARD WILLIAMS; THOMAS SCUDDER WINSLOW, A.B.

[100]

Science **Engineer of Mines:** ALEXANDER ISIDORE ABRAHAMS, A.B.; GEORGE REUBEN BEHLER; CARLETON PERKINS BROWNING; ANTHONY WAYNE CARUTHERS; JAMES

*October, 1912 †February, 1912

LAWRENCE CLAGHORN;† ROBERT FRANKE; DAVID GOLDSTEIN; WHEADON MARTIN GRANT; KARL F. HESS; LOUIS WALTER HICKEY, A.B.; WILLIAM HENRY MCARDLE; JAMES ISAAC MOORE, JR.;* ALBERT HARRISON MORRILL; FREDERICK JAMES PATCHELL; RICHARD CUNNINGHAM PATTERSON, JR.;* GEORGE ANTHONY PROCHAZKA, JR.; OTTO NICHOLAS RUGEN; GEORGE FRANCIS SCHATTINGER; NANABHOY RUSTOMJI SETHNA;* GEORGE AUSTIN SHERRON (November 1, 1904); ISRAEL PHILIP SILVERSTEIN;* HYIEN-WAY SUN; CARL TRISCHKA; FRANK HARTMAN WAGNER; ALFRED LEO WISE.

[25]

Metallurgical Engineer: WILLIAM BANGSER; ALLMAND MATTESON BLOW; REED WARREN HYDE; EDWARD HARRY KOENIG; WARNER McLAUGHLIN, A.B.

[5]

Civil Engineer: SAMUEL BERNARD APPLEBAUM, B.S.; ISIDOR ARONIN; WILLARD JOSEPH CARMEL; JAMES LESLIE CHEATHAM; PAUL BISSELL COVEY; JOSEPH DI STASIO; ARCHIBALD DUNCAN DUFFIE; ELWIN HAROLD FINDLAY; GILBERT DUDLEY FISH; GEORGE ROY GENUNG; HARRY TREADWELL IMMERMEN; HAROLD HENRY JACOBS; SAMUEL KERMIT KATZENBERG; EARLE HAMLIN KIRCHGRABER; EUGENE KLAPP;* JOHN EARLE LATHROP; ATTILIO FELIX LIPARI; GEORGE LAURENCE LOMMEL; FRÉDÉRIC OZANAM XAVIER McLOUGHLIN, B.S.; JOHN PATRICK MALOY; SOLON BARON MANDELL; RAYMOND M. MARX; FREDERICK MILLER; DAVID LEONARD NEUMAN; JOHN ERI PATTERSON; GERALD DAYTON PEET; JACQUIN D. PHILLIPS; ELMER ROBERTS; ADOLPH ROEMERMANN; MILTON SAMUELS;* RALPH SMILLIE, A.B.; FREDERICK BURR SPENCER, A.B.; WALTER STEINBRUCH; REGINALD BARTLETT STRANG; MAU SUN; GERARD RUDOLF TORBORG; HARRY WEISS.

[37]

Electrical Engineer: EDWIN HOWARD ARMSTRONG; HERMAN BURGI, JR.; WALTER SIMMONDS DICKSON, B.E.;* HAROLD WATSON HALDEMAN; BAXTER PERRY HAMILTON; LEWIS BERNHARD KAUFMAN; CORNELIUS KROLL; RALPH HERBERT LANGLEY; LELAND RUSSELL MAPES; FRANK C. MOCK; HENRY RICHTER; VICTOR SHAKIN;* KENNETH GIBSON STERN, A.B.; JAMES ALOYSIUS WALSH; ROBERT ANDREW WHEELER.

[15]

Mechanical Engineer: ADDISON ELWELL AUGUSTINE; ALBERT WEST BISSELL; HAROLD FREDERICK BLANCHARD; MAX H. C. BROMBACHER, JR.; EDGAR FABIAN COHEN, B.S.; HENRY PETTIGREW COOK; WILLIAM JENNINGS DEMOREST; JOHN BARRETT EMMERT; THOMAS FRANCIS GITHENS, B.S.; HARRY TALMAGE GREENE, JR.;* LOUIS GROSSBAUM, B.S.; JULIAN GEORGE GUITÉRAS; WILLIAM FREDERIC HAAREN; EDWARD LOUIS HIRT; ALBERT HERMAN ISRAEL; ALBERT LEVKOWITS; NEIL MACCOULL, JR.; FRANCIS FERGUS McIVER;* WALTER E. RUPRECHT; EDWIN WADSWORTH STONE, B.S.; HOWARD JOHN SWALLOW.

[21]

Chemical Engineer: JOSEPH LAZAR BASSECHES; JOHN SEAMAN BATES, A.B., B.S.;† ALEXANDER SIMON BLUMENTHAL; WALTER EDWIN BURKHARD; STERRY HUNT CHILDS, B.S.; MORRIS MALAN DURKEE; ISMAR GINSBERG, B.S.; JOHN ELDER HAYS, B.E.;† THOMAS JABINE; GORDON MacLEAN; WILLIAM ALBERT McKNIGHT, B.S.; LESTER WALLACK MAAS; ABRAHAM PAUL MEYER; BRAINERD FISCHER PHILLIPSON; RAPHAEL FRANK REVSON, B.S.; LOUIS CLAUDE SCHULTZ; JAMES ARMSTRONG SCHWEIZER; MORRIS GOODWIN SHEPARD; ROYDEN TITUS STRUTHERS; DANIEL APPLETON WILCOX.

[20]

Chemist: ALBERT PARSONS SACHS; FREDERICK CHARLES THORN.*

[2]

Bachelor of Architecture: HERBERT MARKS LIPPMANN, A.B.;* ISADORE REH, **Architecture** B.S.;* NORTON ELLSWORTH WOOD.

[3]

*October, 1912

†February, 1913

Certificate of Proficiency: EDWARD FRANCIS FANNING; HAROLD STORY GRANGER;* JOHN JAY IDE; MARCIA J. MEAD; HENRY MARTIN POLHEMUS;* LAWRENCE I. SHENFIELD.

[6]

Music Bachelor of Music: GLADYS GRIFFITH TALLMAN, A.B.

[1]

Journalism Bachelor of Literature in Journalism: CARL WILLIAM ACKERMAN, A.B.; JOHN ARTHUR BRASHEARS, A.B.; WILLIAM DUNN CONKLIN, A.B.; LEON FRASER, A.B., A.M.; VICTOR H. MARDEFIN, B.S.; EDWARD FILES MASON, A.B.; JOHN BENJAMIN PENNISTON, B.S., A.B.; PAUL LEOPOLD ROSENFELD, A.B.; CEDDES SMITH, A.B., A.M. [9]

Education Bachelor of Science in Education: ELSIE HELEN ALLBEE; LULA OCILLEE ANDREWS; NELLIE JACOBUS APGAR; LUCY MARJORIE ARNER;* MADELEINE AUTEN; EDNA IRENE AVERY; ELIZABETH DU BOIS BACHE; WILLARD ALGER BALLOU; HARRIET HUNTER BARNES; NELLIE MARY BARNETT; MARY LOUISE BARRETT;† ALANETTE BARTLETT; JESSE HOYTE BAXTER; JENNIE REES BEAR; LUTIE KATE BEAR; MARY LOUISE BEECH; CHARLES RICHARD BEEMAN; EARL WARD BENNETT; BERTHA M. BENTLEY; JEAN BERNARD; CHARLOTTE SOPHIE BERNKOPF; ELIZABETH JANE BERRY; ISADORE BIEBER; LILIAS SEBASTIAN BILL; RALSTON DE MAR BINKLEY;* MARGARETE MARIA BLANKENSTEIN; SARAH ELIZABETH BOWER; MAUDE A. BRANDON;* CORINNE BEATRICE BRAY; MARY MAUDE BREWTON; BARNETT BRICKNER;† HELEN LILLIAN BRIDGE; ANNA WEST BROWN; ETHEL LIONELLE BROWN; ROSE A. M. BROWN; EDWARD HOLCOMBE BRYAN; LEROY LANGDON BUCK; CHARLOTTE GRACE BULTMAN;† AGNES BURKE; GERTRUDE BUSCHER;* HARRIETT ZELENA CAMPBELL; VIOLA HORTENSE CAMPBELL; FANNIE LOUISE CASE; CATHERINE EDITH CHAFFEE; IVY HOWE CHAPEL; ORABEL CHILTON; ISRAEL SOLOMON CHIPKIN; SARA ADELINE COATES; MARGARET JEANNETTE CONDON; STUDDIFORD COCHRAN; DAVID BENJAMIN COHEN; BERTHA COLD; CLARA COLLA; FRIEDA HERMINA COOK; THERESA MABEL COOK; MARGUERITE ELISE COOLEY; ISABEL SUTHERLAND COOPER;* PRISCILLA STANDISH CROSBY; CATHERINE CUTLER; JULIA DALE;* GUY PRATT DAVIS;† HARRIET ELLA DAVIS;* GRACE LENA DICKEY;† ALMA A. DOBBS;† ALICE MARGARET DONNELLY; JOHN JOSEPH DONOHUE; ALANSON HARRISON EDGERTON; EDNA LOUISE EHLERDING; LUCILE MAJEL EIFORT;* WINONA MAUDE EILBECK; WILLIAM HERMAN EMMOMS; WILLIAM BACON EVANS; ALICE COWLES FAIRCHILD; CLARA FEELY; ANTOINETTE FELEKY;† NATALIE BOURGEOIS FERAUD; HELEN ATWATER FIELD; SARAH ELLEN FISK; IRENE RAY FITZGERALD; NELLIE FITZGERALD; ALICE BRADFORD FOOTE; CHARLES JAMES FOX, JR.)* HENRY BENJAMIN FRIED; MARY LOUISE FURST; KATHRYN MARGARET GALVIN; MARY LEEDA GELVIN; EMMA GHERING; LAURA GLADYS GIBBS; HARRY GOLDSMITH; VIRGINIA MAY GOOLRICK; HELEN GOSS; FOREST GRANT; HELEN IDE GRAY; SOL GREENFIELD; FRANCES MAY GREGORY; LILLIAN CATHER GRIFFITH; JOHN THOMAS GYGER; JOSEPHINE HAMMOND;* FRANK VINCENT HANNAHAN; ELMA PRUDA HARWOOD; PHILIP S. HASTY;* ELSIE HAVILAND;† JANE EFFIE HERENDEN; HORTENSE HERMAN; HATTIE HERRMANN; ELIZABETH M. HESS; FRANCES CATHARINE HICKOX;† HELEN GRANT HILL; LOUISA MARGARET HOLLINGSWORTH; M. MALCOLM HUFF; MARY REDFIELD HULL; FRANCES BEATRICE HUNTER; ALICE MARGARET HUTCHINSON; MAGDALENA HUYSSOON;† ETHEL CHADDOCK IRWIN; LOUISA MARY JACOB;* ALBION URBAN JENKINS; DOROTHY JESSUP; ANDREW GARFIELD JOHNSON; GRACE MAY JOHNSON; OLEY ANDER JOHNSON; ETHEL HANNAH JONES; SAMUEL KAHN;* PETER GEORGE KAPLAN;* JERRY LEONARD KERBECK; EMMA KEUNE; ABRAHAM KINOY; JOHN JOSEPH KIRWAN; EDWARD KURTZ;* ALICE LIVIA LAKE; EVELYN LEE;† FREDERICK LEIGHTON; JULIET LEO; CAROLINE WILTSE LEONARD;

*October, 1912

†February, 1913

EDITH WOLBARST LONDON; RAYMOND V. LONG; MAX AARON LURIA; CARRIE ALBERTA LYFORD; EMANUEL LYONS; HELEN MCCLURE; ANNIE MCCRAE;* ALICE HANNAH MCKINNEY; HARRIET HOFFMAN MCLAURY; GRACE MAGAW;* JULIA MARIE MAIER; ALMA BALDWIN MAXWELL; HELEN MEYER; MILDRED M. MILLER; WILLIAM DATES MILLER; MARY LEDGER MOFFETT; HELEN LOUISE MOOREHEAD; CHARLES NADLER; LAURA FRANCES NEALE; ISABEL HOWARD NEFF;† JOHN DUELE NEITZ; JOSHUA ZAUTSUNG NYI;† MARIAN TAYLOR O'KEEFFE; REGINA CECILIA O'MALLEY; JOSEPH B. ORLIANSKY; MARTIN PRATT PARKER; SARA LYMAN PATRICK; MABEL KATHERINE PETERS; MARY IRENE PRAY; FLORENCE MAY PRINCE; ELLA MARIE RADEBAUGH;† MARY EVERETT RANKIN; PHILIP RAPOPORT; ANNA MARION RAUSCHER; JOSEPH RESNIK; LEONARD ERNEST RICHTER; EUGENE BONIFACE RILEY; JOHN LAWRENCE RILEY; SUSAN SHIRLEY ROBBINS; JUANITA SADIE ROSENDORF; MARIE ELIZABETH ROUILLOT;† LUCY JANE ROWE; MARION SNOWDON ROY; ROSS OWEN RUNNELS; SARAH FRANCES SALE;* HELEN DOROTHEA SANDERCOCK; HELEN LOUISE SANDFORD; FANNIE EUGÉNIE SAVILLE; IDA SCHAPIRA; ELIZABETH I. SCHILLING; CLARA AGNES SCOTT; LAURA SELDON SEALS;* JOSEPH AUGUSTINE SHERIDAN; MARION CAMPBELL SHERIDAN; MARY BLANCHE SHIMER; OLIVE ESTIL SHROPSHIRE; ALBERT FREDERIC SIEPERT;† ISIDORE SKOLNICK;† JOSEPHINE ALICE SMITH;* JACOB NATHANIEL SOKOHL;* RUTH AURELIA SPALDING; WILLIAM HENRY STANTON;† ELEANOR GERTRUDE STARR; AMY JANE STEVENS; SUSAN WEED STINSON; GRACE AGUSTA STONE; CLARICE RACHEL STOTZER;* HARRISON GILBERT STREETER; CORNELIUS M. SULLIVAN; BELLE SUNDERLAND; MILDRED JEAN SURDAM;* GRACE TAYLOR; ETHEL FLORENCE TERRELL; DE ROSSETTE THOMAS; ELEANOR WALTER THOMAS; MINNIE GUY TIGHT; ARTURO TORRES;† CLARA LOUISE TREMPER;† ISABELLE BAIRD TUCHTON;* CHARLES SCOTT TUTHILL; GRACE HARRIET UTLEY; MARION SYDDUM VAN LIEW;* BENJAMIN HENRY VAN OOT; PHILIP WECHSLER; FLORENCE HELEN WESTON; EDWIN ANTHONY WHALEN; EDITH MABLE WHITCOMB; JENNIE WHITNEY; LURA IRENE WHITNEY; HELEN ETHEL WICKES;† THERESA FLORA WILD; CHARLES DAVID WILDRICK; EDGAR J. WILLIAMS;* LOUIE KOOSER WILLITS;* JOHN R. WILSON; BERTHA WINN; JOSEPH WISLITIER; KAI MING WONG; IDA LEE WOODY; MARGARET SALOME WRAY; LENA MILLICENT YACKEY.

[235]

Doctor's Diploma in Education: BURDETTE ROSS BUCKINGHAM; HUGH HARTSHORNE; JAMES HOWARD HUTCHINSON; WILLIAM WEBB KEMP; THOMAS JOSEPH KIRBY; GEORGE WALLACE KNIGHT; JAMES LUKENS MCCONAUGHY; JAMES COLLINS MILLER; LOUIS WIN RAPEER; RAYMOND WILLIAM SIES.

[10]

Master's Diploma in Education: MATTHEW PRIOR ADAMS; CHARLES ALISON ARGANBRIGHT;* CARRIE VAN RENSSELAER ASHCROFT; JOSEPH EMERY AVENT; RAY BEEMAN;† AGNES LEONARD BENNETT;* MATTHIAS BOEHMKE; S. ORESTES BOND; CHARLES HARVEY BRADY; MARIE BRADY; PAUL PORTER BRAINARD; LEO LESLIE BRENNEMAN; HENRY MASON BRENT; HAZEL BROWN;† JENNIE BUQUO;† JOHN EDGAR CAPPS; NOEL CLEVELAND CARR; LEWIS HERBERT CARRIS;† OLIVE INGALLS CARTER;† STELLA STEWART CENTER; B. BURGOYNE CHAPMAN; MONLIN CHIANG; KATHERINE ROSAMOND COLEMAN; MABEL MEEK COMFORT; HUBERT RAY CORNISH; EMMA JOSEPHINE DAVIS; FORREST ALLISON DECRAFF; MORRIS CHARLES DESHEL; FRANCES M. DICKEY; ULA MAY DOW; SAMUEL PAGE DUKE; ALEXANDER MORDECAI DUSHKIN; MARTHA OLIVER ECKFORD; JANE CURTIS EDWARDS; MARY GRACE FICKETT; ADA MARTITIA FIELD; FRANK MERLE FIELD; EMANUEL MAYER FLEISCHER;* ARTHUR T. FRENCH; JOHN MONTGOMERY GAMBRILL; FRANCIS MARION GARVER;* IRA MORRIS GAST;* ELIZABETH MARIE GUGLE; WALTER S. GUILER;* HARRIET FLORENCE HALE;† KATHARINE HAMILTON;† KICHI HARADA;* LEON FRANCIS HARRIS; CLARA WHORLEY HASSLOCK;* MAUD ELLEN HAYES; WALTER DUTTON HEAD; FRED MATTHEWS HEDGES;* GRACE FLORINE HINCHLIFF;†

*October, 1912 †February, 1913

INEZ MARTHA HOBART; LETA STETTER HOLLINGWORTH; EDITH HOLLOWAY; WILLIAM JAMES HOLLOWAY;* HILARY HERBERT HOLMES; GRACE GORDON HOOD; JUANITA PRISCILLA HOWARD; MARGARETTE ELIZABETH HOWARD; THOMAS HOUGHTON HUGHES; WOODSON CLARE IMMEL; ZAUNG TEH INC;† ELIZUR WARD IRELAND;* LOUISA MARY JACOB; ARTHUR LACEY JOHNSON;† ROBINSON GODFREY JONES;* MARY LOIS KISSELL; HYMAN KORMINSKY;* ETHEL RIDLEY LANIER; HATTIE MAUDE LATHAM; MURRAY J. LEVENTHAL;* MARY SALMOND LILLEY; NELLIE LODGE; ELLSWORTH LOWRY; ERNEST BURT LUCE; MARGARET MCCARTHY; ROY DALE MCCARTHY; MAY C. McDONALD; WARREN WALLACE MCINTIRE;* JOHN JAMES MADDOX;* ARTHUR WILLIAM MARCH; ALICE CRAIG MARTIN;† CARLOTA MATIENZO; LAURA EMILIE MAU;* CRYUS DEWITT MEAD;* ISIDORE MILLER;* BENJAMIN F. MOORE;* WILLIAM JOHN MORRISON;* THOMAS M. MUIR;* KATHARINE MURDOCH; GEORGE MERRIAM NEWELL; MINNIE MAY NEWMAN; SAMUEL MAITH NORTH; ELLIOT V. NOSKA;* EDWARD LEROY PARMENTER; ELSIE PRESTON PEABODY; JAMES BUCHANAN PEARCY;* BENJAMIN JUDAH PHELPS; FRANCIS MARMADUKE POTTER; MARY BINGHAM PRATT; AMY FRANCES PRESTON; WILBUR BERTRAM PURVIS; JOHN REAVELEY; GRACE ELIZABETH RIBLET; JESSE WINFIELD RIDDLE;† CLINTON EMMETT ROSE; CHRISTENA ROSENDALE; ELIZABETH ROTHERMEL;† ROSE LILLIAN SALMOWITZ; CLARENCE JEROME SAWYER; ZENOS EDMUND SCOTT; LAURA SELDON SEALS; ADOLPH SEIBEL; ANNE SELLECK; DAISY C. SHARP; MINERVA BLODGETT SHIRLEY; EUGENE FRANCIS SIMONDS; LILA MAE SKINNER; CILDA LANGFITT SMITH;† WILLIAM THOMAS SMITH; ELLA MARION SNOW; GROVER THOMAS SOMERS;* STELLA ELIZABETH STERLE; HUGH HENRY STEWART; ISABEL MAITLAND STEWART; RUSSELL FOOTE STRYKER; ANNA ELIZABETH SWAINSON; OSCAR EMMANUEL SWANSON;† MARY E. SWEENEY;* LEANORA E. TAFT;* CHESTER EDWIN TAYLOR; HOY TAYLOR; FRED L. THOMPSON; HELEN BISHOP THOMPSON; ROBERT KENNEDY TOAZ; EMMANUEL FELIX VANDAM; PAUL VAN RIPER;* JOSEPH ANTHONY VILLELLI;† THOMAS JEFFERSON WAGNER;† MARY BARBOUR WALKER; DAVID EMRICH WEGLEIN;* JAMES BELL WELLES; CHARLES EVERETT WHEELER;† WINIFRED WILCOX; LEROY COLVER WILSEY; PAUL HOWARD WRIGHT.*

[148]

Bachelor's Diploma in Education: *Biology*—HARRY GOLDSMITH; CHARLES WINTHROP MILLER; GRACE AGUSTA STONE.

Domestic Science—MADELEINE AUTEN; MAUDE A. BRANDON;* MARY LOUISE FURST; GRACE MAGAW;* ISABEL HOWARD NEFF;† SUSAN SHIRLEY ROBBINS; HELEN DOROTHEA SANDERCOCK; CLARICE RACHEL STOTZER.*

Educational Administration—JOSEPHINE HAMMOND.*

Educational Psychology—FANNIE LOUISE CASE; ANTOINETTE FELEKY;† GRACE HARRIET UTLEY; BERTHA WINN.

Elementary Education—ISRAEL SOLOMON CHIPEIN.

Elementary Supervision—MARY LOUISE BARRETT;† JESSE HOYTE BAXTER; JEAN BERNARD; LULIAS SEBASTIAN BILL; BARNETT BRICKNER;† ANNA WEST BROWN; ROSE A. M. BROWN; GERTRUDE BUSCHER;* HARRIETT ZELENA CAMPBELL; JULIA DALE; SARAH ELLEN FISK; HELEN GOSS; MAGDALENA HUYSSOON;† LOUISA MARY JACOB;* ALBION URBAN JENKINS; JULIA MARIE MAIER; HELEN MEYER; JOHN LAWRENCE RILEY; ROSS OWEN RUNNELS; WILLIAM HENRY STANTON;† SUSAN WEED STINSON; CHARLES SCOTT TUTHILL; JOHN R. WILSON; BERTHA WINN; IDA LEE WOODY; MARGARET SALOME WRAY.

English—LULA OCILLEE ANDREWS; MARY LOUISE BEECH; CATHERINE EDITH CHAFFEE; HENRY DIX COLE; JOHN JOSEPH DONOHUE; NATHAN FINE; KATHRYN MARGARET GALVIN; JANE EFFIE HERENDEN; ALICE MARGARET HUTCHINSON; JERRY LEONARD KERBECK (April 14, 1913); JULIETTE LEO; ALMA BALDWIN MAXWELL; AMELIA ROBINSON MUMFORD; MARIAN TAYLOR O'KEEFE; BERNARD PISTNER; MARJORIE ROBINSON; MARION CAMPBELL SHERIDAN; JOSEPHINE ALICE SMITH;*

*October, 1912 †February, 1913

AMY JANE STEVENS; ELEANOR WALTER THOMAS; PHILIP WECHSLER; FLORENCE HELEN WESTON; EDGAR J. WILLIAMS.*

Fine Arts—NELLIE JACOBUS APGAR; FOREST GRANT; SOL GREENFIELD; HELEN LOUISE SANDFORD; ELIZABETH I. SCHILLING; ETHEL FLORENCE TERRELL; JOSEPH WISELTIER.

French—MARTHE ROSALIE LAURE BALLOT; ROSEMARY CLARKE; CLARA COLLA; WILLIAM BACON EVANS; LILLIAN GAITHER GRIFFITH; MAX AARON LURIA.

Geography—WILLIAM HERMAN EMMONS; ANDREW GARFIELD JOHNSON.

German—CHARLOTTE SOPHIE BERNKOPF; MARGARETE MARIA BLANKENSTEIN; HENRY BENJAMIN FRIED; LOUISA MARGRETTA HOLLINGSWORTH; EMMA SOPHIA HUBERT; MARY AGNES HUBERTY; EMMA KEUNE; BERNARD PISTNER; LILLIE REILLY; IDA SCHAFFIRA; IRMA HENRIETTA VON GLAHN.

Grammar Grades Teaching—HARRIET HOFFMAN McLAURY; JOSHUA ZAUTSUNG NYI.†

History—ALANETTE BARTLETT; ISADORE BIEBER; RALSTON DE MAR BINKLEY;* ETHEL LYONELLE BROWN; GUY PRATT DAVIS;† VERA ELIZABETH FEELEY; IRENE RAY FITZGERALD; LAURA GLADYS GIBBS; VIRGINIA MAY GOOLRICK; FRANCES CATHARINE HICKOX;† MICHAEL KAPLAN; PETER GEORGE KAPLAN;* MOLLIE KATZ; EVELYN LEE;† REGINA CECILIA O'MALLEY; ROBERT REICHMAN; EUGENE BONIFACE RILEY; OLIVE ESTIL SHROPSHIRE; ISABELLE BAIRD TUCHTON;* EDWIN ANTHONY WHALEN.

Household Arts—GROUP I. ELSIE HELEN ALLBEE; CATHERINE CUTLER; EDNA LOUISE EHLERDING; CLARA FEELY; FRANCES BEATRICE HUNTER; ETHEL HANNAH JONES; EDITH WOLBARST LONDON.

GROUP II. JENNIE REES BEAR; LUTIE KATE BEAR; CATHERINE CUTLER; EDNA LOUISE EHLERDING; CLARA FEELY; ALICE BRADFORD FOOTE; FRANCES BEATRICE HUNTER; ETHEL CHADDOCK IRWIN; ETHEL HANNAH JONES; EDITH WOLBARST LONDON; MARION SYDDUM VANLIEW.*

GROUP III. ELIZABETH DUBOIS BACHE; ELIZABETH JANE BERRY; IVY HOWE CHAPEL; ORABEL CHILTON; BERTHA COLD; WINONA MAUDE EILBECK; HELEN IDE GRAY; FRANCES MAY GREGORY; ELSIE HAVILAND;† MARY LEDGER MOFFETT; LAURA FRANCES NEALE; LUCY JANE ROWE; MARION SNOWDON ROY; RUTH AURELIA SPALDING; HELEN ETHEL WICKS;† LENA MILLICENT YACKEY.

GROUP IV. ELSIE HELEN ALLBEE; ELIZABETH DUBOIS BACHE; JENNIE REES BEAR; LUTIE KATE BEAR; ELIZABETH JANE BERRY; CHARLOTTE GRACE BULTMAN;† IVY HOWE CHAPEL; ORABEL CHILTON; BERTHA COLD; EMILIE COLLINGWOOD; MARGUERITE ELSIE COOLEY; GRACE LENA DICKEY;† ALICE MARGARET DONNELLY; LUCILE MAJEL RIFORT;* WINONA MAUDE EILBECK; ALICE COWLES FAIRCHILD; NATALIE BOURGEOIS FERAUD; NELLIE FITZGERALD; ALICE BRADFORD FOOTE; MARY LEBIDA GELVIN; HELEN IDE GRAY; FRANCES MAY GREGORY; ETHEL CHADDOCK IRWIN; CARRIE ALBERTA LYFORD; ALICE HANNAH MCKINNEY; MARY LEDGER MOFFETT; HELEN LOUISE MOOREHEAD; LAURA FRANCES NEALE; ELLA MARIE RADEBAUGH;† MARIE ELIZABETH ROUILLOT;† JUANITA SADIE ROSENDORF; LUCY JANE ROWE; MARION SNOWDON ROY; RUTH AURELIA SPALDING; MINNIE GUY TIGHT; HELEN ETHEL WICKS;† LENA MILLICENT YACKEY.

Household Arts Supervision—SARAH ELIZABETH BOWER.

Industrial Arts—CHARLES RICHARD BEEMAN; JOHN JOSEPH KIRWAN; EMANUEL LYONS; PHILIP RAPOPORT.

Industrial Arts Supervision—ALANSON HARRISON EDGERTON; EDWARD KURTZ;* FREDERICK LEIGHTON; RAYMOND V. LONG; LEONARD ERNEST RIGHTER; ALBERT FREDERIC SIEPERT;† GRACE TAYLOR; BENJAMIN HENRY VAN OOT.

*October, 1912 †February, 1913

Kindergarten Supervision—AGNES BURKE; HELEN ATWATER FIELD; EMMA GHERING; MARY RAYNALE JESSUP;* MILDRED M. MILLER; MARY EVERETT RANKIN; LURA IRENE WHITNEY.

Kindergarten Teaching—LUCY MARJORIE ARNER;* PRISCILLA STANDISH CROSBY; ELEANOR GERTRUDE STARR.

Latin—ETTA BELLE FOX; IRENE LOUISE FREAR; HELEN CAMPBELL HALL; FRANK VINCENT HANRAHAN; SAMUEL KAHN;* JACOB MANN; CHARLES NADLER; JOSEPH B. ORLIANSKY; CLARA AGNES SCOTT; JACOB NATHANIEL SOKOHL;* SINCLAIR JOSEPH WILSON.

Mathematics—MARTHE ROSALIE LAURE BALLOT; WILLARD ALGER BALLOU; MARY MAUDE BREWTON; DAVID BENJAMIN COHEN; LOUISE COMES; FRIEDA HERMINA COOK; HELEN AUGUSTA FOLAND; MIRIAM GRENELLE; JOHN THOMAS GYGER; ETHEL MAY HAWKEY; HORTENSE HERMAN; HATTIE HERRMANN; OLEY ANDER JOHNSON; IRENE CECILIA MURPHY; CHARLES NADLER; ANNA MARION RAUSCHER; JOSEPH RESNIE; LAURA SELDON SEALS;* JEAN MACLEAN SHAW; JOSEPH AUGUSTINE SHERIDEN; ISIDORE SKOLNICK;† CORNELIUS M. SULLIVAN; CLARA LOUISE TREMPER;† SARAH GRAHAM VOORHIS; MILTON WEILL; VARIAN WHITE; CHARLES DAVID WILDRICK; SINCLAIR JOSEPH WILSON; KAI MING WONG.

Music—LEROY LANGDON BUCK; MABEL KATHERINE PETERS.

Music Supervision—ELMA PRUDA HARWOOD; THERESA FLORA WILD.

Nursing and Health—HARRIET HUNTER BARNES; HELEN LILLIAN BRIDGE; ALMA A. DOBBS;† ALICE LIVIA LAKE.

Physical Education—JEANNETTE CONDON; ISABEL SUTHERLAND COOPER;* DOROTHY JESSUP; ABRAHAM KINOV; MARY IRENE PRAY.

Physical Science—CORINNE BEATRICE BRAY; HELEN MCCLURE; MARTIN PRATT PARKER; HARRISON GILBERT STREETER; ARTURO TORRES.†

Primary Supervision—BERTHA M. BENTLEY; JEAN BERNARD; MILDRED M. MILLER; MARY ELIZABETH PENNELL; FLORENCE MAY PRINCE; MARY BLANCHE SHIMER; EDITH MABLE WHITCOMB.

Primary Teaching—MARY REDFIELD HULL; ELSIE WALDRON SMITH.

Secondary Education—EARL WARD BENNETT; JOHN DUELE NEITZ.

[277]

Special Diploma in Education: Domestic Art—NETTIE BERTHA HUMFELD;* MARY ANNA MCCORMACK.†

Domestic Science—JOSEPHINE ALLEN;† LOUISE BARTLETT; GRACE BEATRICE BIRKHOLOZ; LILIAN MIRANDA GUNN.

Elementary Education—MARY HOWARTH CLARK; CASSIE LUCRETIA PAINE.*

Elementary Supervision—LEONORA EMILY DOWDALL;* GERTRUDE FRANCES EATON;† FLORENCE VAN AUKEN WATKINS.

Fine Arts—HELEN HUNT ARNOLD; EDITH FLORENCE BABCOCK; JESSIE LILLIAN BELL; ALICE ELIZABETH BEVAN; BELLE BOAS; KATHERINE PORTER BROWN; MILDRED CLAIBORNE BUCHANAN; ETHELYN PRATT COBB;* KATHLEEN FRANCES CONDON; THEODORA FRELINGHUYSEN DEMAREST; KATE MANN FRANKLIN; MARTHA ELEANOR GIBBONS; MARY GRACE IRWIN; DOROTHY PULIS LATHROP; ELEANOR SANDS MARVIN; LEO EARL PEARSON;* MABEL MELISSA PINNEY; LILY BELL RHODES; CAROL MAYER SAX.*

Household Arts—GROUP I. STELLA BURKHART; ETHEL TOWNSEND COUSLEY; DELLA MAY DONNOCKER; ELEANOR FENNELLY; LOUISE FURMAND GARVEY; JULIA MAY JOHNSON;* EVELYN MUNRO;† CLARA LOUISE PECK; MARGUERITE RICHARDS; CLARA

*October, 1912

†February, 1913

NETTIE SUTTON; ESTHER LORENA UPTON; NELLE E. WALES;* CHARLOTTE MARION WENDOVER.

GROUP II. DOROTHY WASHBURN BALL; STELLA BURKHART; DELLA MAY DON-NOCKER; HELEN ADELIA DUNN; ELEANOR FENNELLY; LOUISE FURMAND GARVEY; OLIVE BERTA HARRISS; ELSIE SCOVILL HYDE; JULIA MAY JOHNSON;* ESTHER HEINE JONAS; HELEN BOAK KAY; KATHERINE C. LYNCH; LOUISE BEACH MOSS; MARGUERITE RICHARDS; ETHEL M. RILEY; ALVINA MARIE SCHOENFELD; HELEN STRASSBURGER; CLARA NETTIE SUTTON; ESTHER LORENA UPTON; NELLE E. WALES;* CHARLOTTE MARION WENDOVER.

GROUP III. AMIE FRANCES BURKE; SADIE CATHARINE COFFER;† MARION COLE; FLORENCE MARIE CORWIN; ETHEL TOWNSEND COUSLEY; ELIZABETH CREIGHTON; BESSIE DEMAREST; ETHEL JOHANNA DEUTSCH; GLADYS DOTY; THERESE MARGARET FARRELL; INA BELLE FORBES; CARRIE EMANUEL GERSTLE; RUTH ALLYNE JOHNSON; HELEN JOHNSTON; MARY ALACOQUE KENNEDY; DOROTHY WOODRUFF KIRK; PEARL WEIDEMAN KURZ; GERTRUDE LYNN; AUGUSTA THORN LYON; EVELYN MUNRO;† LUCY MARY QUEAL; BESSIE ELEANOR RAYNOR; EDNA SARA SHACK; JESSIE ISABEL VANSTRUM; EDITH CHESEBRO VINE; BEATRICE ELIZABETH WELLWOOD; GLADYS MAC-CLERIE WHITE.

GROUP IV. DOROTHY WASHBURN BALL; AMIE FRANCES BURKE; SADIE CATHARINE COFFER;† MARION COLE; FLORENCE MARIE CORWIN; ETHEL TOWNSEND COUSLEY; BESSIE DEMAREST; ETHEL JOHANNA DEUTSCH; GLADYS DOTY; HELEN ADELIA DUNN; ELIZABETH FARMER;* THERESE MARGARET FARRELL; CARRIE EMANUEL GERSTLE; RUTH ALLYNE JOHNSON; HELEN JOHNSTON; ESTHER HEINE JONAS; MARY ALACOQUE KENNEDY; DOROTHY WOODRUFF KIRK; PEARL WEIDEMAN KURZ; BESSIE CHAMBERS LEFTWICH;† KATHERINE C. LYNCH; GERTRUDE LYNN; AUGUSTA THORN LYON; JANE RUTLEDGE MCCORMACK; LOUISE BEACH MOSS; EVELYN MUNRO;† BESS PONTZ; LUCY MARY QUEAL; ETHEL M. RILEY; JOSEPHINE E. ROONEY; ALVINA MARIE SCHOENFELD; HELEN STRASSBURGER; ROSE STRUTZ; JESSIE ISABEL VANSTRUM; EDITH CHESEBRO VINE; BEATRICE ELIZABETH WELLWOOD; GLADYS MACCLERIE WHITE; MARGARET WHITEFORD; CHRISTINE ZOFFMAN.*

GROUP V. LILLIAN F. BEYER; FRANCES A. M. EILBECK; NAOMI GODDARD; ADELE WINKLER HORWITZ; MARGARET ELIZABETH KETCHAM; CAROLYN CAPNER RIDDLE; MARY MCKEEN YOUNG.

Industrial Arts—RICHARD ANDREW BOTTÉ; PEARLE MCDUFFIE;* CARL JEROME MENHENNICK;* CHARLOTTE SEWALL TILTON.

Kindergarten Supervision—MARGARET MELINDA COOK;* GRACE FULMER;* MARY LINCOLN MORSE.*

Kindergarten Teaching—RUTH ADLER; MILDRED ALMA BALLOU; CECILIA HARTRICK BASON;* MINERVA RUTH BROWN; CONSTANCE LAMB COLEMAN; ETHEL HEPBURN CORRELL; FLORENCE AGNES KENNEDY.

Music—MARGARET MONTAGUE COOKE; LILAH IRENE JOHNSON;* ANNA MAC-GUIDWIN; ANNA MARY MILLER.*

Nursing and Health—MARIE LOUIS;† ELIZABETH D. SELDEN.

Physical Education—MARIAN KYLE ADAMS; FREDERICK GERDT BEYERMAN;* MINA CONNELL;* EDITH POLLITT HOLT; HELEN JONES; SIDNEY S. KRANZ; ALICE ANNA KURLANDER; LEONARD LESTER PALMER.*

Primary Supervision—RUTH CARVER FORBES; GRACE FULMER;* MARY EDITH JONES; HELEN THOMAS STRONG.

[169]

Pharmaceutical Chemist: ORRIN O. BIGELOW, PH.G.; RAFAEL CABRERA, JR., **Pharmacy** PH.G.; LEWIS L. CAPLAN, PH.G.; OSCEOLA P. COTTRELL, PH.G.; DALTON DAVIS,

*October, 1912 †February, 1913

PH.G.; RAYMOND LONGSTREET FLETT, PH.G.; M. GLOVER GREGORY, PH.G.; ARTHUR V. HALPER, PH.G.; FREDERICK GORDON HAMMOND, PH.G.; KARL F. IRVIN, PH.G.; JOSEPH C. LEGOLL, PH.G.; JOHN RUTGER PLANTEN, PH.G.; HUGO H. SCHAEFER, PH.G.;* WM. SCHOELLER, JR., PH.G.; ISAIAH A. SOLOMONS, JR., A.B., PH.G.; ISIDORE STEINMAN, PH.G.; WILLIAM TAYLOR, PH.G.; ADAM J. A. TRAUB, PH.G.; JACOB HENRY WIENER, PH.G.; EDNA WALLACE WRIGHT, PH.G.

[20]

Doctor of Pharmacy: AINSLIE BUCK, PH.G., PH.CH.; WILLIAM GOGGIN CROKETT, PH.G., PH.CH.; ALBERT A. MUENCH, PH.G., PH.CH.; HERBERT C. OEHLENS, PH.G., PH.CH.; ELSA G. PICKHARDT, PH.G., PH.CH.; HUGO H. SCHAEFER, PH.G., PH.CH.; LEO STEIN, EQUIV., PH.CH.

[7]

Masters Master of Arts: ALBERT ATWOOD ACHESON, B.L. California 1911; MATTHEW PRIOR ADAMS, B.S. Harvard 1904; NICOLAS P. AGHNIDES,† Doctor of Law, Ottoman Imperial Law Sch., Constantinople, Turkey; WILLIAM DANIEL AHEARN, A.B. 1912; ALICE LUCILE ALEXANDER, A.B. Agnes Scott Coll. 1911; MORSE SHEPARD ALLEN, A.B. Wesleyan 1912; CHARLOTTE DEWITT ALLISON, A.B. Wells 1910; WILLIAM KETCHAM ANDERSON, A.B. Wesleyan (Conn.) 1910; ROY CHAPMAN ANDREWS, A.B. Beloit 1906; CHARLES ALLISON ARGANBRIGHT,* A.B. Miami 1906; CARRIE VAN RENSSELAER ASHCROFT, B.S. 1906; ROBERT KING ATWELL,* A.B. Bowdoin 1909; HARRIET AUSTIN, A.B. Minnesota 1906; JOSEPH EMERY AVENT, A.B. North Carolina 1901; ETHEL BAKER, B.S. Texas 1902; HELEN E. BAKER, A.B. Richmond 1907; ESTHER ELIZABETH BALDWIN, A.B. Swarthmore 1909; MARGARET BANCROFT, A. B. WELLESLEY 1912; MABEL BARRETT, A.B. 1912; NELLIE EUNICE BARTON,* B.L. Knox 1898; WILLIAM M. BEARDSHEAR, JR.,* B.S. Iowa State 1911; RAY BREMAN,† A.B. Indiana 1907; KATHERINE LADD BENEDICT, A.B. Western Reserve 1912; AGNES LEONARD BENNETT,* A.B. 1900; EPHRAIM BERLINER, A.B. C. C. N. Y. 1910; DAVID RAY BERNSTEIN, B.S. C. C. N. Y. 1912; JANE MILHOUSE BERRY, Ph.B. Chicago 1904; LELIA TYLER BINKLEY, B.S. 1912; EDWARD FRANCIS BIRCKHEAD, JR.,* A.B. William and Mary 1905; CARL WHITING BISHOP, A.B. DePauw 1912; MAIDELLE BOATWRIGHT, A.B. Columbia, S.C., 1911, A.M. 1912; MATTHIAS JULIUS WILHELM BOEHMKE, A.B. Cape Univ. So. Africa 1900; SYRUS ORESTES BOND, A.B. West Virginia 1909; PHILIP DAVID BOOKSTABER,* B.S. C. C. N. Y. 1911; RANDOLPH SILLIMAN BOURNE, A.B. 1912; BYRON BENNETT BOYD, A.B. Colorado 1910; CHARLES HARVEY BRADY,† B.S. Tri-State Coll. 1902, A.B. Indiana 1907; MARIE BRADY, A.B. N. Y. Normal Coll. 1907; ALBERT SERENO BRAINARD, C.E. Cornell 1905; PAUL PORTER BRAINARD, B.L. Whitman Coll. 1909; LEO LESLIE BRENNEMAN, B.S. 1912, M.E. Juniata Coll. 1910; HENRY MASON BRENT, A.B. Randolph-Macon 1906; EDWARD VINCENT BRODERICK, A.B. 1912; DONALD MELROSE BRODIE, A.B. Oberlin 1911; HYMAN BRODSKY, A.B. Harvard 1910; DOLLIE HORTENSE BROOKOVER, A.B. Kansas State 1901; MIRIAM WOOLSON BROOKS,* A.B. Iowa Wesleyan 1893; HUGH ROLAND BROWER, A.B. Wabash 1906; GEORGE EDWARD BROWN, A.B. Baker 1908, S.T.B. Boston 1912; HAZEL BROWN,† A.B. Swarthmore 1910; HOMER GRANT BROWN,† A.B. Toronto 1906; JAMES STOPFORD LAUDER BRUNTON, B.S. McGill 1910, M.S. 1912; WALTER GERARD MARTIN BUCKISCH,† A.B. 1910; JENNIE BUGUO,† A.B. Tennessee 1905; MARGUERITE HILL BURNETT, A.B. Adelphi 1910; FREEMAN FOSTER BURR, B.S. Harvard 1900; CHARLOTTE MARION BUSH, B.L. Western Reserve 1898; MARGARET JEAN CALVIN,* Ph.B. Chicago 1900; DONALD GEORGE CAMPBELL, B.S. Whitman 1912; JOHN EDGAR CAPPS, A.B. William and Mary 1911; ELIZABETH E. CARNALL, A.B. Arkansas 1909; JOHN JAMES CARNEY, A.B. Cornell 1893; HARRY ALLEN CARPENTER, B.S. Rochester 1902, M.S. 1912; NOEL CLEVELAND CARR, A.B. Texas Christian Univ. 1912; LEWIS H. CARRIS,† B.L. Hobart 1898; OLIVE INGALLS

*October, 1912

†February, 1913

CARTER, † A.B. Smith 1911; PHEBE CARTER, A.B. Smith 1910; CARMINE WILLIAM CARUSO, A.B. 1911; JOSEPH FRANCIS CASHMAN, A.B. Adelphi 1905; STELLA STEWART CENTER, A.B. Nashville 1901, Ph B. Chicago 1911; KATE ETHEL CHAMBERS, A.B. Bryn Mawr 1911; BENJAMIN BURGOYNE CHAPMAN, A.B. University of Sidney (Australia) 1908, A.M. 1910, A.B. Cambridge (England) 1911; MONLIN CHIANG, B.L. California 1912; CHU SHEN CHOW, B.S. Mass. Inst. Tech. 1911; ADDIE OLIVE CHRISTIANSON, B.S. 1911; HERMAN BLANEY CHUBB, A.B. George Washington 1912; MON YIN CHUNG, Ph.B. Yale 1912; WILLIAM EVANS CLARK, A.B. Amherst 1910; MINNIE E. CLAYPOOLE, * B.S. 1908; WINIFRED VERNELLA COBB, A.B. Chicago 1909; HERMAN MAX COHEN, A.B. Chicago 1909; ELBRIDGE COLBY, A.B. 1912; KATHERINE ROSAMOND COLEMAN, B.S. 1911; MABEL MEEK COMFORT, A.B. Indst. Inst. & Coll. of Miss. 1904; ALZADA PECKHAM COMSTOCK, A.B. Mt. Holyoke 1910; GRACE ELEANOR COMSTOCK, A.B. Minnesota 1899; ANNA MATILDA CONNELLY, A.B. Wilson 1909; HENRY FENELON COPELAND, A.B. Syracuse 1905; HUBERT RAY CORNISH, B.S. 1910; ROSALIA DEL PILAR CUEVAS, A.B. Adelphi 1909; WILLIAM WILSON CUMBERLAND, A.B. Occidental Coll. 1912; WILBUR ROBERT CURTIS, * B.S. Valparaiso 1895, A.B. Indiana 1908; HARVEY MONTGOMERY DANN, A.B. Syracuse 1898; MARION DARGAN, JR., A.B. Wolford 1909, B.D. Union Theo. Sem. 1913; JOHN WHITTIER DARR, B.L. Ohio Wesleyan 1910; HARRY SOLOMON DAVIDOWITZ, B.S. 1910; CLARKE EDWIN DAVIS, A.B. Michigan State Normal 1912; EMMA JOSEPHINE DAVIS, A.B. Pomona Coll. 1908; HELEN BISSING DAVIS, A.B. Nebraska 1911; ROLLIN COLEGROVE DEAN, B.S. Wesleyan 1909; FRANK WILLIAM DEFRIECE, A.B. Emory & Henry 1903; MARY CORA DE GARMO, A.B. Washington Univ. (St. Louis) 1912; FORREST ALLISON DEGRAFF, B.S. 1907; GRACE DELANO, A.B. Adelphi 1907, A.M. 1909; FRANCES M. DICKEY, B.S. 1912; ANNA MOORE DICKSON, * A.B. Macalester Coll. 1898; LILLIAN ENGLISH DIMMITT, A.B. Illinois Wesleyan 1888; BAYARD DODGE, A.B. Princeton 1909; THOMAS SMITH DONOHUGH, LL.B. Pennsylvania 1895; ULA MAY DOW, B.S. Kansas State Agric. 1905; HORACE BOOKWALTER DRURY, A.B. Otterbein 1910; SAMUEL PAGE DUKE, A.B. Randolph-Macon 1906; WILLIAM YOUNG DUNCAN, A.B. Yale 1910; MAURICE PRATT DUNLAP, A.B. Princeton 1912; ALEXANDER MORDECAI DUSHKIN, A.B. C. C. N. Y. 1911; EVA OLIVE DUTCHER, A.B. 1902; MATTLAND DWIGHT, A.B. Princeton 1911; MARTHA OLIVER ECKFORD, B.S. Miss. Ind. Inst. 1907; GEORGE WILLIAM EDWARDS, † A.B. C. C. N. Y. 1911; ISAAC NEWTON EDWARDS, A.B. South Carolina 1910; JANE CURTIS EDWARDS, A.B. Bates 1910; GUSTAVE EGLOFF, A.B. Cornell 1912; FRANK ROSE ELDER, B.S. Amherst 1911; ROBERT DULL ELDER, A.B. Princeton 1911; HARRIET WISEMAN ELLIOTT, A.B. Hanover 1910; ESTELLE JAMES ELLISSON, B.S. 1911; MORRIS LOUIS EPSTEIN, B.S. 1912; WALTER EVAN ERVIN, * Ph.B. DePauw 1895; LILLIAN ELIZABETH EVANS, A.B. Mt. Holyoke 1906; JOHN CULBERT FARIES, A.B. Minnesota 1889; JOSEPH FEINGOLD, * A.B. Clark 1911; MABEL ELIZABETH FERGUS, * A.B. Denver 1910, A.M. 1912; ERNA MARY FERGUSON, A.B. Univ. New Mexico 1912; MARY GRACE FICKETT, A.B. Tufts 1896; ADA MARTITIA FIELD, A.B. Guilford 1898, A.M. Washington 1909; FRANK MERLE FIELD, A.B. Waynesburg 1904; HELEN ANNETTE FIFIELD, * A.B. Carleton 1885; SADIE GERTRUDE FISCHER, A.B. N. Y. Normal Coll. 1909; JOSEPH BURTON FISH, B.S. C. C. N. Y. 1905; SISTER HELEN CLARE FLANIGAN, A.B. College of St. Elizabeth 1908; EMANUEL MAYER FLEISCHER, * A.B. 1911; FRANCIS ROSEBRO FLOURNOY, * A.B. Washington & Lee 1905; WILLIAM FONDILLER, E.E. 1909, B.S. C. C. N. Y. 1903; THOMAS CECIL FORD, B.S. Armour Inst 1909; MAE FRANKLIN, A.B. Hamline 1901; ARTHUR T. FRENCH, † B.S. Harvard 1907; HARRISON MORTON DICKINSON FRERICHS, * A.B. C. C. N. Y. 1910; GUSTAV GEORGE FREYGANG, M.E. Stevens Inst. Tech. 1909; FRÉDRICK JOHN HERMAN FRICKE, A.B. Mich. State Normal 1912; ANNA FULTON, * B.S. Muskingum 1895; MARY MEARES GALT, A.B. Randolph-Macon 1904; JOHN MONTGOMERY GAMBRILL; HOVHANNES LAZARUS GARABEDIAN, A.B. Robert Coll. 1910; FRANCIS MARION GARVER, * A.B. Indiana 1906; IRA MORRIS GAST, * Ph.B. Indiana Central 1901, A.M. 1904; JOSEPH A. GEDDES, A.B. Brigham Young Coll. 1907; DORA BLANCHE

*October, 1912

†February, 1913

GEORGE, A.B. Baylor Coll. 1912; CARL CHESNEY GIBSON,† B.S. Denison 1911; GRACE RUSSELL GILBERT, A.B. Cornell 1907; THOMAS FRANCIS GITHENS, B.S. C. C. N. Y. 1909; EDWIN LAWRENCE GLUCK, A.B. 1911; AGNES GOLDMAN,† A.B. Bryn Mawr 1909; HERBERT SAMUEL GOLDSTEIN, A.B. 1911; GERTRUDE CLIFF GOODSPEED, A.B. Bates 1898; LOUIS GORDON, B.S. 1912; SISTER MARY CLARA GRAHAM, Ph.B. Chicago 1909; JESSE MARTIN GRAY, A.B. Olivet 1904; HYMAN GREENBERG, B.S. 1912; HARRIET CONE GREVE,† A.B. Tennessee 1906; JOHN B. GRIFFING, A.B. Drake 1909, B.S. Kansas Agric. Coll. 1904; KENNETH GROESBECK, A.B. C. C. N. Y. 1905; BEATRIX HELEN GROSS, A.B. N. Y. Normal Coll. 1911; LOUIS GROSSBAUM, B.S. 1910; JOSEPH GROVES, A.B. Trinity (Hartford) 1910; SISTER MARIE ELISE GUÉRIN, A.B. St. Elizabeth 1903; ELIZABETH MARIE GUGLE, A.B. Ohio State 1897; WALTER S. GUILER,* A.B. Miami 1909; WALTER WILLIAM GUSTAFSON, A.B. Upsala Coll. 1912; HELEN IVES HAIGHT, A.B. Vassar 1898; HARRIET FLORENCE HALE,† A.B. 1911; ALONZO CLEVELAND HALL, A.B. Elon Coll. 1910; HELEN CAMPBELL HALL, A.B. Vassar 1912; ERNEST MILTON HALLIDAY, A.B. Michigan 1904, LL.B. 1906; KATHARINE HAMILTON,† B.S. Eureka 1895; KICHI HARADA,* Equiv. A.B. Meiji Women's Seminary 1899; FREDERICK CHARLES HARDING; MILDRED HARRIGAN, A.B. Leland Stanford 1910; LEON FRANCIS HARRIS, A.B. C. C. N. Y. 1904; NATHAN CONANT HARRIS, B.S. Tufts 1912; JOHN PATRICK HARTIGAN, A.B. Brown 1910; LYMAN R. HARTLEY, A.B. N. Y. Univ. 1911; CLARA WHORLEY HASSLOCK,* A.B. Nashville 1905; PHILIP MESERVE HAYDEN, A.B. Tufts 1903; MAUD ELLEN HAYES, B.S. 1908; WALTER DUTTON HEAD, A.B. Harvard 1902; FRED MATTHEWS HEDGES,* A.B. Lawrence 1905; AMY IRENE HERRIFF,* B.S. Buchtel 1894; JOHN LEONARD HILL,* A.B. Georgetown (Ky.) 1899, A.M. 1899; GRACE FLORINE HINCHLIFF,† A.B. Knox 1910; ALICE CORNELIA HINCKLEY, B.S. 1912; MORSE SABLE HIRSCH, A.B. C. C. N. Y. 1911; INEZ M. HOBART, B.S. Minnesota 1908; PHEBE EDITH HOFFMAN, A.B. 1912; EDITH HOGUE, B.S. Northwestern 1908; CALM MORRISON HOKE, A.B. N. Y. Normal Coll. 1908; LETA STETTER HOLLINGWORTH (Mrs.), A.B. Nebraska 1906; EDITH HOLLOWAY, A.B. Indiana 1908; WILLIAM JAMES HOLLOWAY,* HILARY HERBERT HOLMES,† B.S. 1910; GRACE GORDON HOOD, B.S. 1912; DANIEL BERNARD HOURIHAN, B.S. 1912; JUANITA PRISCILLA HOWARD, A.B. Howard Univ. 1912; MARGARETTE ELIZABETH HOWARD, B.S. 1907; EMILY H. HOWES, A.B. Wesleyan 1898; CHEN-SHENG HUANG,* B.S. 1911; THOMAS H. HUGHES, A.B. C. C. N. Y. 1906; MARY EMERSON HURLBUTT, A.B. Vassar 1912; JOSEPH CHARLAP HYMAN,† A.B. 1911; WOODSON CLARE IMMEL, B.S. Purdue 1908; ZAUNG TEH ING,† B.S. Wooster 1912; ELIZUR WARD IRELAND,* B.S. 1908; FRANCES HAMMER JACKSON, A.B. Goucher 1908; LOUISA MARY JACOB, B. S. 1912; JOSEPH JENSEN, B.S. Utah 1908; BETTY JOFFE, B.S. 1911; ARTHUR LACEY JOHNSON,† B.S. Lafayette 1896, M.S. 1899; LUCETTA PITNEY JOHNSON, A.B. 1907; LESTER MARTIN JONES, A.B. Baker 1909; ROBINSON GODFREY JONES,* A.B. Ohio Northern 1894, A.M. 1896; FRIEDOLINA CATHARINE JUD, B.S. 1912; ESTHER KEAGEY, A.B. 1900; EMMA MATTESON KEELEY, A.B. N. Y. Normal Coll. 1906; HELEN REX KELLER, B.L. Smith 1899; LYMAN MORSE KELLS, A.B. Minnesota 1910; PHILIP COATES KING, A.B. Oberlin 1910; GERTRUDE SOUTHWICK KINGSLAND (Mrs.), Ph.B. Hamline 1888, A.M. 1912; MORRIS KIRSCHSTEIN, B.S. C. C. N. Y. 1911; MARY LOIS KISSELL, B.S. 1911; ELIZABETH AMANDA KITTREDGE, A.B. Vassar 1912; MAUDE D. KIVLEN, A.B. N. Y. Normal Coll. 1909; SHIGEO KOJIMA, A.B. St. Paul's Coll. 1912; HYMAN KORMINSKY,* B.S. C. C. N. Y. 1907; LILLIAN MAY KREINER, B.S. 1910; YING-CHIEH KUANG, E.M. Pei-Yang Univ. 1910; THOMAS JAMES LACEY,* B.S. N. Y. Univ. 1911; ETHEL RIDLEY LANIER, A.B. Drury Coll. 1909; GARIBALDI MARIO LAPOLLA,* A.B. 1910; HATTIE MAUDE LATHAM, A.B. Smith 1912; JULIAN SUMNER LAWRENCE, A.B. Richmond 1912; MAXWELL FRANCIS LAWTON, A.B. 1904; SISTER LOUISE MARIE LEMÉE, A.B. St. Elizabeth 1911; HOWARD MARION LESOURD, A.B. Ohio Wesleyan 1911; MURRAY JACOB LEVENTHAL,* A.B. C. C. N. Y. 1911; MAURICE M. LEWINSONN, B.S. Ducal Inst. Coethen, Germany;

*October, 1912

†February, 1913

ALBION B. LEWIS, A.B. Bates 1906; JOSEPH LIFF, B.S. 1912; MARY SALMOND LILLEY, A.B. London 1903; MARY VICTORIA LIPE, A.B. 1907; BENJAMIN H. LOCKE, A.B. Howard Univ. 1912; HELEN DRUSILLA LOCKWOOD, A.B. Vassar 1912; NELLIE LODGE, B.S. Swarthmore 1897; HARRY MELVILLE LOVE, A.B. N. Y. Univ. 1909; ELLSWORTH LOWRY, A.B. Texas 1909; ERNEST BURT LUCE, B.S. 1912; ISRAEL LUSKIN, A.B. Syracuse 1912; JUWAN USANG LY, Equivalent A.B. Kwang-Chow 1904, B.C.S. N. Y. Univ. 1912; MARGARET MCCARTHY, A.B. Carleton 1907; ROY DALE MCCARTHY, Ph.B. Upper Iowa 1908; HELEN MCCLEES, A.B. Ohio State 1910; DANIEL SPENCER McCORKLE,* A.B. Missouri Valley Coll. 1909; MYRTLE ELIZABETH MCCORMICK, B.S. 1910; MAY CECELIA McDONALD, B.S. Minnesota 1907; PAULINE McDOWELL, A.B. Wellesley 1896; ABIGAIL JOUET MCGAVOCK, A.B. Randolph-Macon 1899, A.M. 1900; MARY BELL MCGAVOCK, B.S. 1912; NETTIE PAULINE MCGILL, A.B. Goucher 1912; WARREN WALLACE MCINTIRE,* Ph.B. Wooster 1896, Ph.M. 1899; MARY EULA MCKINNEY, A.B. Ohio State 1906; WALTER W. MCKIRAHAN,* A.B. Muskingum 1905; EARL REGINALD McLEAN, A.B. Toronto 1908; FRANK JOSEPH McMACKIN, B.S. 1912; MARIE A. McNALLY,* A.B. Trinity (Washington, D. C.) 1910; MARY GYLA McDOWELL, A.B. Grove City Coll. 1898; MARGARET ELIZABETH MACK, B.S. Nevada 1910; ARTHUR WHITTIER MACMAHON, A.B. 1912; JOHN JAMES MADDOX,* A.B. Yale 1907; ALVIN EDWIN MAGARY; CLARENCE AUGUSTUS MANNING, A.B. 1912; ARTHUR WILLIAM MARCH, Ph.B. Wooster 1905; ALICE CRAIGIE MARTIN, † A.B. 1912; CARLOTA MATIENZO-ROMÁN, B.S. 1911; LAURA EMILY MAU, B.S. 1910 (June 5, 1912); THERESA MAYER, A.B. 1911; THEODORE MAYNZ, M.E. 1912, A.B. Harvard 1910; CYRUS DEWITT MEAD,* Ph.B. DePauw 1898; LEWIS ELBERN MEADOR, Ph.B. Chicago 1910; CHARLES JAMES WILLIAM MEISEL, † A.B. 1911; AGNES MERRELL, A.B. Wisconsin 1902; JANE LOUISE MESICK, A.B. Mt. Holyoke 1909; HELEN ALTHEA MESSENGER, A.B. N. Y. Normal Coll. 1905; ANNA MEYER,* A.B. N. Y. Normal Coll. 1909; CHARLES HARRISON MEYER, A.B. 1912; CHARLES WINTHROP MILLER, A.B. Clark 1905; EMMA ESTHER MILLER, † B.L. Smith 1903; ISIDORE MILLER,* B.S. 1911; WALLACE HERMAN MINER, A.B. Allegheny 1907; GRAHAM JOHN MITCHELL, B.S. Oregon 1912; KIICHI MIZUTANI, Equiv. A.B. Waseda 1907; BENJAMIN FRANKLIN MOORE,* JOHN JACOB BROOKE MORGAN, A.B. Taylor Univ. 1911; WILLIAM JOHN MORRISON,* B.S. Swarthmore 1896; IRA ABBOTT MORTON, A.B. Mt. Union 1903; B.D. Drew Theo. Sem. 1905; SOPHIA MOSES, A.B. Wellesley 1909; FRANK WILBUR MOTTLEY, A.B. Minnesota 1908; THOMAS M. MUIR,* A.B. William Jewell 1904; GEORGE WALKER MULLINS, A.B. Arkansas 1904; RACHEL BELKIN MURAVCHIK; KATHARINE MURDOCH, B.S. 1912; ALBERT J. MURPHY, A.B. N. Y. Univ. 1912; PHILIP NANES,* Ph.B. Brown 1905; ANNA CONWAY NEACY, A.B. 1913; CLARENCE ALVIN NEFF, Ph.B. Wooster 1907; DORA ESTELLE NEUN, B.S. Rochester 1912; GEORGE MERRIAM NEWELL, B.S. Wesleyan (Conn.) 1904; MINNIE MAY NEWMAN, A.B. Nebraska 1910; FLORENCE NEESE NICHOLSON, A.B. Dakota Wesleyan 1908; JAROSLAV VICTOR NIGRIN,* B.S. 1911; SAMUEL MAITH NORTH, B.S. 1912; JOHN HOWARD NORTHROP, B.S. 1912; ELLIOT V. NOSKA,* B.S. C. C. N. Y. 1906; ABRAHAM NOWAK, B.S. C. C. N. Y. 1910; GEORGE ALLAN ODAM, A.B. Texas 1909; MARIE OLLER, B.L. Smith 1903; CHARLES FRANCES OTTO, A.B. Adelphi 1912; ESTHER PACKARD, A.B. Smith 1911; EDNA ADELINE PALMER, A.B. 1910; JOSEPH HENDERSHOT PARK, A.B. 1912; EDWARD LEROY PARMENTER, B.L. Michigan 1886; RICHARD H. PAYNTER, A.B. 1912; ELSIE PRESTON PEABODY, A.B. Mt. Holyoke 1905; EVA FLORENCE PEARCE,* A.B. Brenan Coll. 1896, A.M. 1898; JAMES BUCHANAN PEARCY,* Ph.B. Butler Coll. 1888; FRANKLIN BURCHE PEDRICK, A.B. Johns Hopkins 1909, M.D. N. Y. Homeop. Med. Coll. 1913; DAVID H. PERLMAN,* A.B. C. C. N. Y. 1910; THOMAS ASBURY PERRY, B.S. Georgia 1907; WILLIAM HENRY PERRY, A.B. Syracuse 1908, B.D. Union Theo. Sem. 1911; BENJAMIN JUDAH PHELPS, A.B. Yale 1902; HUBERT PHILLIPS, A.B. Chattanooga 1908; CLARA H. PLANER (Mrs.), B.S. 1910; EDWARD PLAUT, A.B. Princeton 1912; BRITTON POLLEY,* A.B. C. C. N. Y. 1911; FRANCIS MARMADUKE POTTER, A.B. Rutgers 1911, A.B. Oxford

*October, 1912

†February, 1913

(England) 1911; ELIZABETH BARTLETT POTWINE, A.B. Mt. Holyoke 1901; ANNIE MARION POWELL, A.B. Sweet Briar Coll. 1910; MARY ANNE POWELL, A.B. Missouri 1911, B.S. 1911; MARY BRIGHAM PRATT, B.S. 1911; AMY FRANCES PRESTON, A.B. Tennessee 1906; THEODORE RENTROPE PROUTY, B.S. Mass. Inst. Tech. 1912; WILBUR BERTRAM PURVIS, A.B. Brown 1912; ELIZABETH QUACKENBUSH, Ph.B. Wisconsin 1911, Ph.M. 1912; HELEN TOWNSEND QUIGG, A.B. Goucher 1904; FREDERICK RAY; STOCKTON RAYMOND, A.B. Ohio State 1905, B.L. 1907; JOHN REAVELEY, A.B. Wesleyan 1898; GERARD ALSTON REICHLING, A.B. 1908; EVA CHRISTIE REID, A.B. Minnesota State 1904; DAVID FREDERICK RENSHAW,* B.S. Rochester 1911; GRACE ELIZABETH RIBLET, B.S. 1908; WINFIELD LAWRENCE RICE, A.B. Dartmouth 1903; RAYMOND CRAVER RICKER, B.S. Illinois 1900, B.D. Drew Theo. Sem. 1913; JESSE W. RIDDLE,† LL.B. Michigan 1890, A.B. Indiana 1904; KATHARINE RIEGELHUTH, A.B. Nevada State 1897; ROLAND ROGERS RIGGS, Equivalent A.B. U. S. Naval Acad. 1904; MAY ERNA RIVKIN, A.B. 1911; FRANCES ALBERTA ROBINSON, A.B. Toronto 1912; EDITH ROCKWOOD, A.B. Minnesota 1909; ELIZABETH FRANCES ROGERS, A.B. Goucher 1912; ROSE ROLL, A.B. N. Y. Normal Coll. 1909; CLINTON EMMETT ROSE, A.B. Kansas 1899; CHRISTENA ROSENDALE, A.B. Kansas State Normal 1912; FRANK ALEXANDER ROSS, Ph.B. Yale 1908; ELIZABETH ROTHERMEL,† A.B. California 1899; VINCENT HAROLD ROTHWELL, B.S. 1912; ROBERT CHILD RYDER, A.B. Middlebury 1910; SHELLEY RAY SAFIR,† A.B. C. C. N. Y. 1912; ROSE LILLIAN SALMOWITZ, A.B. 1910; MARION DUTTON SAVAGE, A.B. Wellesley 1909; CLARENCE JEROME SAWYER, A.B. South Carolina 1908; M. FRANK SCHACHTER, B.S. 1912; BENJAMIN SCHWARTZ, A.B. C. C. N. Y. 1911; ERNEST EDWARD SCHWARZTRAUER, A.B. Miami 1912; ETTA MAY SCHWEIS, A.B. 1912; DAVID J. SCHWEITZER, B.S. C. C. N. Y. 1912; ZENOS EDMUND SCOTT, B.S. Moore's Hill 1912; LAURA SELDON SEALS, B.S. 1912; ADOLPH SEIBEL, A.B. Tri-State Coll. 1910; ERWIN STEVENSON SELLE,† A.B. Washburn 1908; ANNE SELLECK, B.S. 1910, A.B. Bryn Mawr 1904; GEORGE HENRY SEVERANCE, Jr., A.B. Middlebury 1908; RAYMOND BRANCH SEYMOUR, A.B. Dartmouth 1910; DAISY COCHRANE SHARP, A.B. Pennsylvania Coll. for Women 1912; AGNES MORTON SHAW,† A.B. Wellesley 1892; DOROTHEA FOOTE SHERMAN,† A.B. George Washington 1906; MINERVA BLODGETT SHIRLEY (Mrs.), Ph.B. Boston 1902; MARY ARMSTRONG SHOUSE, B.S. Georgetown 1905, Ph.B. Chicago 1909; RALPH WALTER SHOWERS, A.B. Susquehanna 1908; AHMED SHUKRI,† Equiv. A.B. Cyprus Coll.; WALDO SHUMWAY, A.B. Amherst 1911; EUGENE FRANCIS SIMONDS, A.B. Univ. of Sydney 1910, B.S. 1911; CHARLES GAMBLE SIMPSON,† Ph.B. Cornell Coll. 1895, A.M. 1902; HARRY HUSE SKERRITT, A.B. Syracuse 1911; LILA MAE SKINNER, B.S. So. Dakota Agr. Coll. 1912; PRESTON WILLIAM SLOSSON, B.S. 1912; CILDA LANGFITT SMITH,† A.B. West Virginia 1908; WARREN SLOCUM SMITH, B.S. Washington State 1912; WILLIAM THOMAS SMITH, A.B. St. Francis Xavier 1899, A.M. 1900; ELLA MARION SNOW, B.S. 1906; RALPH WASHINGTON SOCKMAN, A.B. Ohio Wesleyan 1911; HYMAN SOLOMON, A.B. C. C. N. Y. 1911; GROVER THOMAS SOMERS,* A.B. William and Mary 1907; EDMUND LLOYD SOUDER, A.B. Harvard 1910; THOMAS AYLES SPARKS, A.B. 1912; DOROTHY ALICE SPEAR, A.B. 1912; DORIS JEANNETTE SPIER,† A.B. N. Y. Normal Coll. 1910; HARRIET MONFORT SPINING,† B.S. 1911; STELLA ELIZABETH STEELE, B.S. Missouri 1909, A.B. 1910; HUGH HENRY STEWART B.S. 1911; ISABEL MAITLAND STEWART, B.S. 1911; MAUDE GERTRUDE STEWART, B.L. Carleton 1888; DOROTHY STIMSON, A.B. Vassar 1912; MARION STORRS, A.B. Mt. Holyoke 1900; LUCY JANE STREET, A.B. Randolph-Macon 1908; RUSSELL FOOTE STRYKER, A.B. Rutgers 1910; CLYDE BRONSON STUNTZ, A.B. Wesleyan 1910; ANNA ELIZABETH SWAINSON, B.S. Missouri State 1909; OSCAR EMMANUEL SWANSON,† B.S. Northwestern 1911; MARY E. SWEENEY,* A.B. Transylvania 1899, M.S. Kentucky State 1906; LEONORA E. TAFT,* A.B. Maine 1910; GLADYS GRIFFITH TALLMAN, A.B. 1911; CHESTER EDWIN TAYLOR, A.B. Boston 1908; HOY TAYLOR, A.B. Trinity (N. C.) 1906; ANNA JESSE TEALL, A.B. Mt. Holyoke 1908; NINA B. TERRILL, A.B. Western Reserve 1909; ELIZABETH WILKINS THOMAS, A.B. Vassar 1912; FRED L. THOMPSON,

*October, 1912

†February, 1913

B.S. Amherst 1904; HELEN BISHOP THOMPSON, B.S. Kansas State Agricult. Coll. 1903, M.S. 1907; SABRA CARRINGTON COLBY TICE, A.B. 1907; EUNICE EVELYN TITUS, Ph.B. Syracuse 1902; ROBERT KENNEDY TOAZ, A.B. Rochester 1893; WILLIAM GEORGE TOWART, A.B. Colgate 1909; JACOB CLOYD TRESSLER,* A.B. Syracuse 1906; HENRY BURTON TRIMBLE, A.B. Roanoke 1907, B.D. Vanderbilt 1911; KWO PAO TSAI, Ph.B. Yale 1912; VIRGIL ERRETT TURNER, A.B. Ohio Wesleyan 1910; EDNA M. TWAMLEY,* A.B. Minnesota 1902; HARRY URDANG, A.B. C. C. N. Y. 1909; EDITH MOORE VALET,† A.B. 1912; EMMANUEL FELIX VAN DAM,* A.B. St. Francis Xavier 1902; ERNEST HARVEY VAN FOSSAN, A.B. Oberlin 1909; PAUL VAN RIPER,* Ph.B. Franklin 1907; WILLIAM VETTER, B.S. Pennsylvania State 1908; MARCEL H. VIGNERON, B.S. 1912; JOSEPH ANTHONY VILLELLI,† B.D. Union Theo. Sem. 1910; WALTER W. VOIGHT, A.B. Meridian Male Coll. 1910; THOMAS JEFFERSON WAGNER, A.B. Franklin and Marshall 1910; ALBERT LADD WALDRON, A.B. Harvard 1902; EMMA WALKER, A.B. Adelphi 1909; JENNIE WALKER, A.B. Adelphi 1909; MARY BARBOUR WALKER, A.B. 1907; PHEOBE MARSHALL WALLER, B.S. 1908; ALFRED GRANT WALTON, A.B. Oberlin 1911; GEORGE ADRIAN WASHBURNE, A.B. Ohio State 1907; THOMAS HENDERSON WATSON, JR., A.B. 1912; FLORENCE A. WATTERS, A.B. Smith 1911; ESTELLA TERRY WEEKS, B.S. 1906; DAVID EMRICH WEGLEIN,* A.B. Johns Hopkins 1897; JAMES BELL WELLES, A.B. Union 1909; CHARLES EVERETT WHEELER,† A.B. Middlebury 1900; ISABEL WHEELER, A.B. Vassar 1904; EDITH GRACE WHITE, A.B. Mt. Holyoke 1912; WILLIAM FOSTER WHITE, JR., B.S. Pennsylvania State 1912; GILBERT HAYES WHITEFORD,* B.S. Maryland Agr. Coll. 1897; HAROLD WHITEHURST, A.B. North Carolina 1903; ROBERT CALVIN WHITFORD, A.B. C. C. N. Y. 1912; MARY ALICE WHITNEY, A.B. Michigan 1903; LOUIS CHARLES WHITON, JR., Ph.B. Yale 1912; EDWARD WIEST, A.B. George Washington 1912; WINIFRED WILCOX, B.S. 1908; HENRY EARNEST WILLIAMS,† A.B. Boston Univ. 1909; JUDITH BLOW WILLIAMS, A.B. Vassar 1912; MARY WILLIAMSON, A.B. Hollins Coll. 1909; JAMES C. WILLINGHAM, A.B. Missouri Valley Coll. 1909; SYDNEY WILMOT, B.S. Brown 1909; LEROY COLVER WILSEY, B.L. Rutgers 1912; ELIZABETH SOPHIA WILSON, A.B. Smith 1901; SALLIE EGERTON WILSON, A.B. Lake Forest 1903; HELEN FRAZER WINSTON, A.B. Washington Univ. St. Louis 1912; HUGH MAUPIN WOLFLIN, B.S. Arizona 1907; IRA WOLLISON, A.B. C. C. N. Y. 1909; CHARLES MORGAN WOOD,* Ph.B. Yale 1891; HARRIS COVINGTON WOODLEY, A.B. Wofford 1907; PAUL HOWARD WRIGHT,* A.B. Wilmington 1901; ELSA PAULINE WUNDERLICH, A.B. 1912; KWEEU E. YANG, A.B. St. John's, Shanghai, 1909.

[504]

Master of Laws: CLAYTON T. A. FRENCH, LL.B. 1910, A.B. N. Y. Univ. 1907.

[1]

Doctor of Philosophy: HOLMES BECKWITH, B.L. California 1908, M.L. 1909. Dissertation: Some phases of industrial education; ERIC TEMPLE BELL,* A.B. Stanford 1904, A.M. Washington State 1908. Dissertation: The cyclotomic quinary quintic; RALPH CARPENTER BLANCHARD, B.S. Rose Polytechnic Institute 1905. Dissertation: Rocks of The Western Buckskin Mountains, Arizona; ALICE DOROTHY BREWSTER, A.B. 1906, A.M. 1907. Dissertation: Aaron Hill; ETHEL NICHOLSON BROWNE,† A.M. 1907, A.B. Goucher 1906. Dissertation: A study of the male germ cells in notonecta; BURDETTE ROSS BUCKINGHAM, A.B. Wesleyan 1899, A.M. 1900. Dissertation: Spelling ability: its measurement and distribution; LEON HARDY CANFIELD, A.B. Syracuse 1908. Dissertation: A study in the history of the early persecutors; CORA SUTTON CASTLE (Mrs.), A.B. Minnesota 1905, M.L. California 1908. Dissertation: A statistical study of eminent women; HERBERT ANTHONY CLARK, B.S. Kansas 1898, A.M. Nebraska 1905. Dissertation: Selective reflection of salts of chromium and certain other oxygen acids; DAVID LEIGH COLVIN, A.B. Ohio Wesleyan 1900. Dissertation: The bicameral principle in the New York Legislature; ROBERT LOYALTY

**Doctors of
Philosophy**

*October, 1912

†February, 1913

CRU, Bachelier és lettres Grenoble 1900, Licencié Paris 1906. Dissertation: Diderot as a disciple of English thought; JOHN FREDERICK DASHIELL, A.M. 1910, B.S. Moore's Hill 1908, B.L. 1909. Dissertation: The philosophical status of value; WILLIAM WATSON DAVIS, A.M. 1906, B.S. Alabama Polytech. Inst. 1903, M.S. 1904. Dissertation: A history of Florida in the Civil War and Reconstruction; CHARLES ELSON, A.B. Bucknell 1909, A.M. Harvard 1910. Dissertation: Wieland and Shaftesbury; DEAN SPRUILL FANSLER, A.M. 1907, A.B. Northwestern 1906. Dissertation: Chaucer's use of the *Roman de la rose*; HARRIOTT ELY FANSLER, Ph.B. Northwestern 1902, A.M. 1906. Dissertation: The evolution of technic in Elizabethan tragedy; WILLIAM OLIVER FARNSWORTH, A.B. Harvard 1893, A.M. 1894. Dissertation: Uncle and nephew in the Old French *Chansons de Geste*; BENJAMIN GEORGE FEINBERG, A.M. 1910, B.S. C. C. N. Y. 1906. Dissertation: A quantitative study of some aldehyde reactions; META GLASS, A.M. Randolph-Macon Woman's College 1899. Dissertation: The fusion of stylistic elements in Vergil's Georgics; HERBERT DANA GOODALE, A.B., A.M. Trinity (Conn.) 1904. Dissertation: The early development of splerpes bilineatus (Green); GABRIEL MARCUS GREEN, A.M. 1912, B.S., C. C. N. Y. 1911. Dissertation: Projective differential geometry of triple systems of surface; WALTER PHELPS HALL, † A.B. Yale 1906. Dissertation: The radical reform movement in Great Britain 1791-97; HENRY GOTTLIEB HARTMANN,* A.B. Brooklyn Polytechnic Institute 1900. Dissertation: Locke a constructive relativist; HUGH HARTSHORNE, A.B. Amherst 1907, A.M. Yale 1910, B.D. 1911. Dissertation: Worship in the Sunday School. A study in the theory and practice of worship; HELEN JOSEPHINE HARVITT, A.B. 1907. Dissertation: Eustarg de Beaulieu; JOSEPH SAMUEL HEPBURN, B.S., M.S. Pennsylvania 1907. Dissertation: Biochemical studies of cholesterol; FERDINAND FRIIS HINTZE, JR., A.B. Utah 1908, A.M. 1911. Dissertation: A contribution to the geology of the Wasatch Mountains, Utah; BENJAMIN HOROWITZ, Chem. 1911, A.M. 1912. Dissertation: A study of the action of ammonia on thymal; SOLOMON THEODORE HALÉVY HURWITZ, A.M. 1910, A.B. N. Y. Univ. 1909. Dissertation: Root determinatives in Semitic speech; JAMES HOWARD HUTCHINSON, A.M. 1909, A.B. Colgate 1905. Dissertation: School costs and school accounting; ROBERT MELYNE ISHAM, A.B. Wesleyan (Nebraska) 1909, A.M. Nebraska 1910. Dissertation: The preparation and properties of certain methoxylated carbinols, olefins and ketones derived from trimethyl gallic acid; WILLIAM WEBB KEMP, A.B. Leland Stanford 1898. Dissertation: The support of schools in Colonial New York by the Society for the Propagation of the Gospel in Foreign Parts; EDWIN P. KILROE, A.B. 1904, A.M. 1905, LL.B. 1906. Dissertation: The origin and development of the Society of Tammany in the City of New York; THOMAS JOSEPH KIRBY, A.M. 1910, A.B. Indiana 1906. Dissertation: Practice in the case of school children; EDGAR WALLACE KNIGHT, A.B. Trinity 1909, A.M. 1911. Dissertation: The influence of Reconstruction in the South; ALMON WHEELER LAUBER, Ph.B. and Ph.M. Syracuse 1905. Dissertation: Indian slavery in Colonial times within the present limits of the United States; MICHAEL LEVINE, A.M. 1910, B.S. C. C. N. Y. 1906. Dissertation: Studies in the cytology of the hymenomycetes especially the boleti; ARNOLD JOHNSON LIEN, A.B. Minnesota 1908, A.M. 1909. Dissertation: Privileges and immunities of citizens of the United States; JAMES LUKENS McCONAUGHY, A.B. Yale 1909, A.M. Bowdoin 1911. Dissertation: The school drama; WALTER WILBERT MCKIRAHAN, A.M. 1912, A.B. Muskingum 1905. Dissertation: The surface tension of aqueous solutions of some organic salts; EDGAR GRIM MILLER, JR., B.S. Gettysburg 1911. Dissertation: Studies in pathological chemistry; JAMES COLLINS MILLER, A.M. 1910, B.S. Throop Polytech. Inst. 1907. Dissertation: The organization, administration and supervision of rural education in Canada; BLAINE FREE MOORE, A.B. Kansas 1901, A.M. Illinois 1908. Dissertation: The Supreme Court and unconstitutional legislation; HENRI FRANÇOIS MÜLLER,* Bachelier és lettres Paris 1897. Dissertation: Origine et histoire de l'emploi de "à" dans la locution "faire faire quelque chose à quelqu'un;" GARRY CLEVELAND MYERS,

A.B. Ursinus 1909. Dissertation: A study in incidental memory; MARKS NEIDLE, A.M. 1912, B.S. C. C. N. Y. 1911. Dissertation: The surface tension of aqueous solutions of ethyl, methyl and amyl alcohols and of acetic and formic acids; WILLIAM STROCKTON NELMS, A.B. Southwestern 1903, A.M. 1904. Dissertation: A systematic study of linear and non-linear resonators for short electric waves; WILLIAM MARSIGLIA NESBITT, A.B. 1902, A.M. 1907, B.D. Drew Theo. Sem. 1905. Dissertation: Sumerian records from Drehem; MARTHA ORNSTEIN, A.B. 1899, A.M. 1900. Dissertation: The role of the scientific societies in the seventeenth century; JESSE ELIPHALET POPE, B.S. Minnesota 1895, M.S. 1897. Dissertation: The clothing industry in New York; THOMAS REED POWELL, A.B. Vermont 1900, LL.B. Harvard 1904. Dissertation: The principle of the separation of powers in its application to the administrative exercise of the police power; LOUIS WIN RAPEER, B.S. Chicago 1904, A.M. Minnesota 1907. Dissertation: The administration of school health provisions; DANIEL WALTER REDMOND,† Ph.B. Hamilton 1901. Dissertation: The leather glove industry in the United States; ANTON RICHARD ROSE,† B.S. Minnesota 1904, M.S. Yale 1910. Dissertation: Biochemical studies of phytophosphates; EDWARD SCHRAMM, Chem.E. 1909, B.S. C. C. N. Y. 1906. Dissertation: The surface tension of molten hydrated salts and their solutions; GEORGE GILMORE SCOTT, A.B. Williams 1898, A.M. 1899. Dissertation: A physiological study of the changes in *mustelus canis* produced by modifications in the molecular concentration of the external medium; RAYMOND WILLIAM SIES, A.B. Iowa 1907, A.M. 1908. Dissertation: Teachers' pensions and pension systems; NEWELL LE ROY SIMS,† A.M. 1910, A.B. Tri-State College Indiana 1901. Dissertation: A Hoosier village; a sociological study in social causation; LLOYD LEROY SMAIL, A.B. Washington 1911, A.M. 1912. Dissertation: Some generalizations in the theory of summable divergent series; CLAYTON SIDNEY SMITH, B.S. Rutgers 1909. Dissertation: A study of the influence of cold storage temperature upon the composition and nutritive value of fish; HOMER ADOLPH STREBBINS, Ph.B. Syracuse 1906, Ph.M. 1907, LL.B. 1908. Dissertation: Party politics in New York State from 1865-1876; HARRISON ROSS STREEVES, A.B. 1903, A.M. 1904. Dissertation: Learned societies and English literary scholarship; EDWARD COLLINS STONE, A.B. Yale 1904, A.M. Trinity 1905. Dissertation: The surface tension of certain organic liquids and the capillary constants and critical temperatures calculated therefrom; ARLOW BURDETTE STOUT,† A.B. Wisconsin 1909. Dissertation: The individuality of the chromosomes and their serial arrangement in *Carex Aquatilis*; FRANK HATCH STREIGHTOFF,† A.B. Wesleyan 1909, A.M. 1910. Dissertation: The distribution of incomes in the United States; CHARLES WEISMAN, B.S. C. C. N. Y. 1900, M.S. N. Y. Univ. 1902. Dissertation: Biochemical studies of expired air; BLANCHE COLTON WILLIAMS, A.M. 1908, A.B. Mississippi State College for Women 1898. Dissertation: Gnostic poetry in Anglo-Saxon. [67]

Master of Arts: HENRY SYDNOR HARRISON of the Class of 1900; WILLIAM RHINE-**Honorary**
LANDER STEWART of the Class of 1873, Law.

Doctor of Science: COLONEL WILLIAM CRAWFORD GORGAS, Assistant Surgeon-General, U. S. A.; ALEXIS CARREL, Rockefeller Institute for Medical Research.

Doctor of Letters: DANIEL CHESTER FRENCH, Sculptor; BARRETT WENDELL, Professor of English in Harvard University.

Doctor of Sacred Theology: REVEREND SAMUEL PARKES CADMAN, Pastor of the Central Congregational Church, Brooklyn.

Doctor of Laws: GEORGE SUTHERLAND, United States Senator from Utah.

(Conferred January 6, 1913), FELIX KRUEGER, Litt.D., Professor of Psychology in the University of Halle, Kaiser Wilhelm Professor 1912-13; (Conferred March 3, 1913), RUDOLF EUCKEN, Litt.D., Professor of Philosophy in the University of Jena.

†February, 1913

COMMENCEMENT CALENDAR

- May 23—Field Day. Senior Class, College of Physicians and Surgeons.
- May 29—Barnard College Senior Dance.
- May 31—Teachers College River Day; Barnard Senior Play.
- June 1—Baccalaureate Service, Rt. Rev. Thomas Frank Gailor, S.T.D. (Hon. '91), Bishop of Tennessee.
- June 2-7—Architectural Exhibition; Columbia College Class Day; Senior Tea; Phi Beta Kappa Oration, Felix E. Schelling, Ph.D., University of Pennsylvania; Teachers College Senior Dance; Columbia College Senior Dance.
- June 3—Barnard College Ivy Day; Teachers College Lawn Party; Campus Night.
- June 4—Commencement Day: Conferring of degrees and award of honors; presentations; Alumni Luncheons; Costume Parade; Baseball Game, Pennsylvania *vs.* Columbia; Barnard Alumnae Costume Parade; Alumnae Class Suppers, Barnard College; Alumni Beefsteak Dinner; Senior and Alumni Singing and Band Concert; Senior and Alumnae Singing.
- June 5—Barnard College Class Day; Barnard Senior Banquet.

FELLOWSHIPS, SCHOLARSHIPS, AND OTHER PROVISION FOR THE ASSISTANCE AND REWARD OF STUDENTS

(For awards see page 460)

NOTE. Unless otherwise provided, all stipends of Fellows and Scholars shall be paid in equal semi-annual instalments on the second Wednesday of each half-year. Before being entitled to receive instalment of his stipend, each Fellow and Scholar is required to report himself in writing to the Registrar as in residence, on or before the opening day of each half-year. Failure so to report may operate to vacate the Fellowship or Scholarship.

All Fellows and Scholars are required to pay all fees for matriculation, tuition, graduation, and for the use of the Gymnasium. The provisions regarding the maximum fee for the higher degrees and the statute concerning the sons of professors do not apply to them.

The following regulations apply, unless the contrary is specifically stated, to the award of all fellowships and scholarships:

**General
Regulations**

In each case application in writing, on a blank prepared for the purpose, must be filed with the Secretary of the University; for fellowships it should be filed on or before March 1; for University scholarships on or before April 1, and for other scholarships on or before May 1. Applications and documents received in support thereof later than these dates, or not distinctly indicating the name of the candidate and the fellowship or scholarship for which he applies, may fail of consideration. As an evidence of graduation, a printed certificate is preferable to the formal diploma itself, as there is risk that the latter may be lost or injured in transit.

The appointment is in each case for one year dating from July 1. Candidates will be notified as promptly as possible as to the success of their applications. Documents and letters submitted by the candidates are returned, but not letters written direct to the University. If the applicant wishes the documents which he has submitted returned to him by mail he should enclose postage for the purpose, otherwise they will be held until called for. Documents will not be preserved for more than one year from the date of application.

All Fellows and Scholars, as hereinafter provided, shall reside in New York City or its vicinity during the academic year, unless permission be granted by the Council to study elsewhere. No Fellow or University Scholar may pursue a professional or technical course of study during his term.

The conditions under which the appointment may be granted are indicated in the following paragraphs:

UNIVERSITY FELLOWSHIPS

Candidate must give evidence:

(a) of a liberal education, such as a diploma from a college or scientific school of good repute;

(b) of decided fitness for a special line of study, such as an example of some scientific or literary work already performed;

(c) of upright character, such as testimonial from some instructor.

A Fellow may be reappointed for reasons of weight, but not for more than two terms of one year each. Vacancies will be filled in the same manner in which original appointments are made.

These fellowships are awarded as honors, and those who are so disposed, for the benefit of others, to waive the pecuniary emolument, may do so, and still have their names retained on the list of Fellows. In such cases additional University Fellows may be appointed.

Each Fellow is expected to perform such duties as are allotted to him in connection with a course of study leading to the degree of Doctor of Philosophy. He is expected to devote his time to the prosecution of special studies under the direction of the head of the department in which his major subject lies, and before the close of the academic year to give evidence of progress by the preparation of a thesis, the completion of a research, the delivery of a lecture, or by some other method.

No Fellow shall be allowed to accept remunerative employment or to give instruction or assistance in any department of the University except by permission of the President, and the acceptance of any such employment, without such permission, shall operate to vacate the fellowship.

Adams The Ernest Kempton Adams Research Fellowship, founded by Mr. Edward Dean Adams, in memory of his son, Ernest Kempton Adams, E.E. '97, A.M. '98, is of an annual value of \$1250. The appointment may be made from among the teaching staff, alumni, or students of the University. The incumbent shall prosecute researches either at Columbia or elsewhere, in the physical sciences, in psychology, or in their practical applications. The results of these investigations are published and distributed by the University under the title of "Researches of the Ernest Kempton Adams Research Fellows of Columbia University."

Alumni Association Provision is made annually by the Alumni Association of the College of Physicians and Surgeons for a fellowship, tenable for one year and of an annual value of \$650, open to graduates who have shown special aptitude for scientific research in the Department of Pathology. Appointments are made upon the nomination of the Executive Committee of the Alumni Association from candidates presented by the Professor of Pathology.

Incumbents are expected to devote themselves to scientific research

either at Columbia, where they enjoy free tuition and the privileges of the laboratories, or in other institutions either here or abroad, at their own expense, and at the end of the year's work to present to the Association a thesis containing evidence of independent or original work.

The Treasurer may receive gifts of money for fellowships for one year **Annual** or more provided that no fellowship shall be created for less than \$500 per annum. Such fellowships shall be filled by the University Council, subject to such regulations as may be prescribed.

The University maintains an annual fellowship in the International **Archaeology** School of American Archaeology and Ethnology in Mexico.

Barnard (see Tyndall)

The "Class of '70 Fellowship," has an annual value of \$500, and after **Class of '70** the expiration of the term of the present incumbent, shall be filled by the University Council, subject to such regulations as may be prescribed.

The Columbia Fellowship in Architecture, the net income accruing **Columbia** during a period of two years of \$13,000, established in recognition of the gifts of F. Augustus Schermerhorn, E.M. '68, to the School of Architecture, is open each alternate year to all school graduates. The winner is required to devote the income to foreign study and travel in accordance with approved plans.

The George William Curtis Fellowship is awarded for a term of two **Curtis** years upon the recommendation of the Faculty of Political Science in every third year, the next award being for 1916-17. The Curtis Fellow shall be entitled to receive, during his incumbency, the net income of the endowment of \$10,000, accruing during a period of three years, and proportionately for any part of the term.

Candidates shall submit an essay or address on the "Immediate Duty of the American Citizen," in addition to complying with the requirements of candidates for University Fellowships.

The Fellow shall devote himself to the study of the science of government, with a special view to its application to the then existing condition of the United States or to the State or City of New York; and at or before the conclusion of his second year he shall publish (a) a monograph satisfactory to the Faculty of Political Science on some subject relating thereto, and (b) a brief sketch of George William Curtis as a citizen and orator, showing that he has familiarized himself with the life and character of the man whose memory is to be perpetuated by the fellowship which he has enjoyed.

Drisler The Henry Drisler Fellowship in Classical Philology, established in 1894, in commemoration of the semi-centennial in the service of the University of Professor Henry Drisler, A.B. 1839, is of the annual value of \$650, and is open to Bachelors of Arts of this University, or some other institution of equivalent standing, who have studied Greek and Latin throughout their undergraduate course, and who have an adequate knowledge of French and German.

The appointment is made by the University Council on the recommendation of the Department of Classical Philology. Recommendations should reach the President on or before April 1, and reappointments may be made for not more than two terms of one year each.

The Fellow must study at this University under the direction of the professors of Greek and Latin, unless permitted by the Council to spend a year in some foreign university, or in the American School of Classical Studies at Athens, or in the American School of Classical Studies at Rome.

Dubois The Abram Dubois Fellowship is open to a graduate of the School of Medicine who shall have satisfactorily completed a term of one year or more, the whole or greater part of which shall have been devoted to the diseases of the eye as interne in a hospital in New York, or elsewhere, approved by the Committee on Award. The award is made annually, but the holder may be continued in the fellowship, if no equally worthy candidate presents himself. The incumbent is restricted to clinical and laboratory study of the subject of diseases of the eye in foreign or American universities.

Garth The Granville W. Garth Fellowship in Political Economy is awarded each year. The successful applicant for the fellowship shall be entitled to receive the net annual income of the capital sum of the Granville W. Garth Memorial Fund of \$16,250.

Gilder Two or more Gilder Fellowships shall be awarded annually by the University Council upon the recommendation of the Faculty of Political Science to graduates of any college or university, or to students having exceptional qualifications. The incumbents shall devote themselves to the investigation of political and social conditions in this country or abroad; to the examination and analysis of the practical working of legislation enacted for the purpose of improving civic conditions or to practical civic work, in accordance with plans approved by the Professor of Politics and the Professor of Sociology. It shall be the duty of each Gilder Fellow to make a written report at least semi-annually to such professors, giving an account of the work on which he has been engaged. Each of such Fellows shall receive such portion of the income of the Richard Watson Gilder Fund for the Promotion of Good Citizenship as the Trustees may

from time to time determine, provided that a portion of the income of the fund may, in the discretion of the Trustees, be set aside to meet the cost of publishing the results of the investigations and studies of such Fellows, and such publications shall bear the title of the fund. A Fellow appointed under this section may be reappointed for two additional years, and no more.

The Samuel Anthony Goldschmidt Fellowship in Chemistry is awarded **Goldschmidt** each year by the University Council in the same manner as University Fellowships are awarded and subject to the same regulations. The Fellow shall be entitled to receive the annual net income of \$16,250, the gift of George B. Goldschmidt, a memorial to Samuel Anthony Goldschmidt of the class of 1871.

The Gottsberger Fellowship, awarded every second year, is open only **Gottsberger** to candidates who, having first taken a degree in Columbia College, have been, for not less than two years, resident graduate students at Columbia, taking also the degree of Master of Arts. The holder may, with the consent of the professor in charge of his major subject of study, and with the approval of the President, pursue his studies abroad. The Fellow so appointed receives the net income for two years of the capital sum of \$9,500 constituting the Cornelius Heeney Gottsberger Scholarship Fund.

The McKim Fellowship in Architecture, endowed by gift of Charles **McKim** F. McKim of \$20,000, is open to graduates who have received their degrees within six years preceding its bestowal, and is awarded in May of each year as the result of a competition in design. The holder is required to spend a year in foreign travel and study. Any incumbent who has displayed marked proficiency and promise is eligible to reappointment for one year, but no more. The value of this Fellowship is \$820.

The William Mitchell Fellowship is awarded annually by the Trustees, **Mitchell** on the nomination of the Faculty of Columbia College, to a graduate of the College who purposes entering upon a course of advanced study in letters or science. In determining the appointment, preference shall be given to members of the graduating class and to graduates of not more than three years' standing. The Fellow so appointed shall be entitled to receive the net income of the fund of \$10,000, bequeathed by Benjamin D. Silliman, and he is permitted to study at Columbia or elsewhere.

The Mosenthal Fellowship, established in memory of the late Joseph **Mosenthal** Mosenthal, is designed to aid talented students of musical composition, either men or women, in the study of their art. The stipend is the net

income for two years of the capital sum of \$7500. It is awarded every second year by the Council upon the recommendation of the professor of Music, and is tenable for one year. Applicants are required to show a thorough knowledge of harmony and of counterpoint and some ability to compose, by submitting a number of original compositions in support of their applications. The holder must devote himself to the study of musical composition at Columbia, or, with the approval of the President and the professor of Music, abroad. In the former case, he shall be required, in addition to his studies in Music, to pursue such other studies in at least two departments of the University as the professor of Music may direct. In either case, the Fellow shall submit, at such times as the professor of Music may designate, the results of his work in musical composition.

Perkins A traveling Fellowship, the net income from a fund of \$5,700, from the bequest of the late Willard P. Perkins, is awarded every fourth year. The next award will be for the year 1914-15. The conditions of award and the purposes of the Fellowship are the same as for the McKim Fellowship.

**Proudfit
(Letters)** The Alexander Moncrief Proudfit Fellowship in Letters for the encouragement of the study of English Literature, founded by the bequest of Alexander Moncrief Proudfit, is open to any son of native-born American parents who shall have taken the degree of Bachelor of Arts after three years' residence in Columbia College, and who shall, while enjoying such fellowship, remain unmarried. The appointment is made by the Council upon the joint recommendation of the professors in the Department of English. The Fellow shall be entitled to receive during his incumbency the net income of the sum of \$13,875. He shall carry on his studies and research at Columbia, or elsewhere, under the direction of the professors in the department named.

**Proudfit
(Medicine)** The Maria McLean Proudfit Fellowship, endowed by the late Alexander Moncrief Proudfit, A.B. '92, for the encouragement of advanced studies in medicine, is open to any son of native-born American parents, a graduate in medicine, who shall pursue advanced studies in internal medicine under the direction of the Medical Faculty of the University, and who shall, while enjoying such fellowship, remain unmarried, and shall be appointed by the University Council upon the recommendation of the Faculty of Medicine. Appointment shall be made every four years, upon terms to be designated by the Faculty. The Fellow shall carry on his studies under the direction of the Faculty of Medicine.

Schiff The Schiff Fellowship in Political Science, the gift of Mr. Jacob H. Schiff, is of an annual value of \$600. The appointment is made each

year by the Council upon the recommendation of the Faculty of Political Science, which recommendation is based upon the nomination following: On or before April 1 of each academic year the Faculty of Political Science shall propose to Mr. Jacob H. Schiff while living the name of a suitable person for nomination by him. The conditions to govern the nomination after Mr. Schiff's death will be found in the University Statutes.

The Carl Schurz Fellowship for the Study of the German Language **Schurz** and Literature is awarded, in every even-numbered year, by the Council, upon the recommendation of the professors of the Department of Germanic Languages and Literatures. The Fellow shall be entitled to receive the net income for two years of the capital sum of \$10,000, constituting the endowment contributed by citizens of New York, in commemoration of the seventieth birthday of Carl Schurz. The appointment may be renewed for reasons of weight for a further term of one year, but without additional stipend.

Candidates must present testimonials as to their zeal and success in the study of German, and must, by an essay or published treatise, give evidence of their fitness for a wider and more profound study of the languages and literatures and for independent research. They must also have a sufficient knowledge of Latin and French to use these languages readily in the prosecution of their studies. The holder must study at Columbia under the direction of the Department unless permitted by the Council to study at some German university.

The Tyndall Fellowship for the Encouragement of Research in Physics, **Tyndall** endowed by Professor John Tyndall, annual value \$648, and the Barnard Fellowship for Encouraging Scientific Research, endowed by the bequest of the late President Barnard, annual value \$400, are awarded annually under the following conditions: The Tyndall Fellowship is available for one or more American pupils who may have shown decided talent in physics, preferably such as shall express the determination to devote their lives to the advancement of theoretic science and original investigations in that department of learning, and is awarded either to a graduate of the University or to a student in it upon the recommendation of the head of the Department of Physics. The Barnard Fellowship is awarded upon the joint recommendation of the Faculties of Columbia College, Applied Science, and Pure Science to a graduate of any one of them, who having shown decided aptness for physical investigation, is disposed to devote himself thereto for some years continuously. The recommendation must, in each case, be made to the President on or before April 1. The appointment is for the term of one year, but the incumbent shall be eligible to reappointment.

It is the duty of a Tyndall or Barnard Fellow to devote himself faith-

fully to the investigation of some subject in physical science at this or some other University, under the supervision of some known physicist approved by the President and the head of the Department of Physics. He shall make a quarterly report, certified to by the physicist superintending and directing him, to the President, giving an account of the work in which he has been engaged during the academic or calendar quarter preceding.

University Twelve fellowships, of the value of \$650 each, known as "University Fellowships," are awarded annually by the University Council to those graduates of colleges and scientific schools, not over thirty years of age, who show themselves especially fitted to pursue courses of higher study and original investigation.

SCHOLARSHIPS

Aldrich The scholarship known as the James Herman Aldrich scholarship, established by James Herman Aldrich, of the class of 1863, by a gift of \$5000 in commemoration of the fiftieth anniversary of his graduation, is awarded annually to such persons as the President may designate, with the approval of the Trustees.

Alumni Association Four Alumni Association Scholarships were established in the College by the Trustees in recognition of the interest that the Alumni Association has always shown in the affairs of the College, and are open only to Freshmen who complete the requirements for admission before matriculation.

Alumni Competitive Four Alumni competitive scholarships were established in the College by the Trustees in 1890. One is awarded annually not later than July 15 by the Committee on Undergraduate Admissions to those qualified Freshmen who pass in June the best entrance examinations in subjects aggregating the $14\frac{1}{2}$ units requisite for admission. The examination may be taken at any point where examinations are held by the College Entrance Examination Board. No applications are required from candidates for first appointment. Reappointments are made under the general regulations of the Committee on Scholarships.

Annual The Treasurer may receive gifts of money for scholarships for one or more years, provided that no such stipend shall be less than the annual tuition fee of the college or of the school in which it is provided.

Beck (College) The Beck Scholarship was established in the College in recognition of the liberality of Charles Bathgate Beck, A.B., 1877, LL.B., 1879, and is awarded to applicants whose record for ability and scholarship obtained

either before or after matriculation gives evidence of special fitness for the course of study they wish to pursue. Students not in need of financial aid cannot be considered as applicants, nor can those who, through physical, mental or moral weakness, give little promise of future usefulness.

The Charles Bathgate Beck Prize Scholarship is awarded to the first-year candidates who pass the best examination in the subjects relating to Real-Estate Law. The holder shall, provided he remains a member of the school, receive one year's income of the prize fund established by the will of Charles Bathgate Beck in equal semi-annual instalments, during the two years following the award. If two or more students pass examinations of equal merit, the income of the fund may be divided. **Beck (Law)**

Sixty-three scholarships of tuition value were established by the Trustees in 1899 in recognition of the liberal gifts for the purchase of the site on Morningside Heights received from J. Pierpont Morgan, Cornelius Vanderbilt, A. A. Low, R. Fulton Cutting, Alfred Corning Clark, Samuel Sloan, Henry Parish, Jacob H. Schiff, and others. These scholarships have been assigned to different faculties as follows: Columbia College, 20, open only to Freshmen; Applied Science, 27, open only to students who have been in the university at least one year; Law, 61, open to students who have been in the school at least one year. **Benefactors**

There shall be a scholarship or scholarships open to qualified candidates maintained in the College of Physicians and Surgeons by the income or the George Blumenthal, Jr., Scholarship Fund. An annual award or awards shall be made to a student or students to cover the cost of tuition or for other purposes, in amounts not less than \$250 nor more than \$900 to any one student in any one academic year. **Blumenthal**

Twelve Brooklyn Scholarships were established in the College by the Trustees in 1895, in recognition of ex-President Low's gift of a memorial building for the University Library. Three are open for competition annually to residents of Brooklyn trained either in the public or the private schools of that borough, on the same basis as the Alumni Competitive Scholarships. **Brooklyn**

Two scholarships were established by the bequest of Annie P. Burgess known as the Dr. Daniel M. Burgess and the Annie P. Burgess scholarships and are to be awarded annually by the President and Trustees to two worthy and deserving young men of good habits and Christian character, who may be unable to pay their own expenses while pursuing their studies in the University. The value of these scholarships is the income of the two distinct sums of \$5000 each. **Burgess**

Butler The Richard Butler Scholarship, tenable for one academic year, with the possibility of renewal for each of two years more, for the benefit of male students born in the State of Ohio, is open for competition to qualified candidates who propose to enter any college or school of the University (except Teachers College or the College of Pharmacy). The annual value (to be applied to tuition charges) is the income of a fund of \$5000, given for the establishment of the scholarship. Applications should be made under the same regulations as those for University Scholarships.

Campbell Two Campbell Scholarships were established in the College by gift from Miss Maria L. Campbell and Miss Catherine B. Campbell, in memory of Robert B. Campbell of the class of 1884, and Henry P. Campbell of the class of 1847. The scholarships are awarded on the same basis as the Beck Scholarship.

Clark By the will of the late Alonzo Clark, M.D., LL.D., for many years President of the College of Physicians and Surgeons, and Professor of Pathology and Practical Medicine, it has been placed in the power of the Faculty to bestow a scholarship, with an income of about \$575 a year, for the purpose of promoting the discovery of new facts in medical science.

Class of '48 The Class of 1848 Scholarships were established in the College by an anonymous gift and are awarded on the same basis as the Beck Scholarship.

Class of '85 The Class of '85 Scholarship was established by the class of '85 School of Mines in memory of the 25th anniversary of graduation, by a gift of \$8200. The scholarship is open to duly registered students in the Schools of Mines, Engineering and Chemistry.

Daly The Marcus Daly Scholarship of the annual value of \$1000, maintained by Mrs. James W. Gerard in memory of her father, is open to that worker or descendant of a worker in the Montana mines who passes the best competitive entrance examinations to the course in Mining Engineering. The winner of the Scholarship shall hold the same throughout his course in mining engineering, subject to the same conditions of reappointment as those imposed upon the holders of competitive scholarships in Columbia College. As soon as the term of one holder of the scholarship is about to expire, another competitive examination is held.

Devendorf The Devendorf Scholarship, established by a gift of \$6500 from Mrs. Lodema W. Devendorf in memory of her husband, Davis M. Devendorf, of the Class of 1861, is open to a qualified candidate for the degree of M.D.

In making the award preference shall be given to a student from the county of Herkimer in the State of New York and preferably to a student from the town of Herkimer.

The Trustees have established a series of scholarships known as the **Faculty** Faculty Scholarships which are allotted among the several faculties as follows: College 6, Law 4, Medicine 4, Science 8, Fine Arts 4.

Four University Scholarships, known as the Curtis University Scholar- **Curtis** ships, will be awarded annually to women students under the Faculties of Political Science, Philosophy, and Pure Science. These scholarships are awarded under the same regulations as those governing the University Scholarships.

The income of a fund established by the late Jacob Harsen, M.D., **Harsen** in 1859, for the purpose of "promoting the study of Medical and Surgical Practice," has, under an order of the Supreme Court, been made available for the award of five scholarships to students in the College of Physicians and Surgeons, in lieu of the Harsen prizes heretofore awarded. Two of these scholarships may be awarded to students taking the second year in the medical course; two to students in their third year, and one to a student in his fourth year, provided that the aggregate of the stipends of such scholarships shall not exceed the income earned by the fund during the preceding year.

Four scholarships known as the Hewitt and Harper Scholarships were **Harper and** endowed, two by the gift of Abram S. Hewitt, LL.D., of the class of 1842, **Hewitt** and two by the bequest of Joseph W. Harper, A.M., of the class of 1848. One open annually for competition to graduates of New York City high schools, on the same basis as the Alumni Competitive Scholarships.

The Wawepex Society makes annual provision for a scholarship amount- **Jones** ing to \$200 and including the use of a table at the biological laboratory at Cold Spring Harbor, L. I. The award is made by the Council upon the recommendation of the Department of Zoölogy.

The Louis K. McClymonds Scholarships (2) of the annual value of **McClymonds** \$650, maintained by Mrs. Annie K. McClymonds in memory of her late husband, are open to those candidates for the degree of A.B. or B.S. who shall have satisfactorily completed the requirements for admission, and who, in the judgment of the Faculty of Columbia College, shall be deemed most deserving of appointment. Preference shall be given to sons of American-born parents who have no other means of providing for their tuition and living expenses during the academic year.

Moffat Two Moffat Scholarships, endowed by William B. Moffat, A.B., 1838, M.D., 1842, are awarded on the same basis as the Alumni Association Scholarships.

President's Eight scholarships, known as the President's University Scholarships, are awarded by the University Council, governed by the regulations attached to the University Scholarships, and by such further regulations as may from time to time be adopted. See University Scholarships.

Pulitzer Through the generosity of the late Mr. Joseph Pulitzer, male graduates of the public high schools of the city of New York, not to exceed forty at any time, are awarded scholarships upon competitive examination. Each scholarship so awarded may be held for a period of four years in the College or in any department of the University except the Medical School, Teachers College, and the College of Pharmacy. The scholarship will be withdrawn if at any time the holder fails to maintain a satisfactory standard in his academic work. During his term the scholar receives the sum of \$250 a year over and above the cost of his tuition. Full information regarding the conditions under which these scholarships are awarded will be furnished, upon application, by the Secretary of the University.

Schermerhorn Five Schermerhorn Scholarships, endowed by John Jones Schermerhorn, A.B., 1825, are open only to Freshmen in the College. The requirements for admission must be completed before matriculation. Awarded on the same basis as the Alumni scholarships.

Religion and Learning Eight Scholarships of the Society for Promoting Religion and Learning have been founded and are awarded by this Society.

Stuart Two Stuart Scholarships were established in the College by the gift of Mrs. Cornelia A. Atwill, in memory of her grandsons, Sidney Barcula Stuart, of the class of 1880, and Eugene Talman Stuart, of the class of 1881. They are awarded on the same basis as the Alumni Association Scholarships.

University Twenty University Scholarships, of an annual value of \$150, are awarded by the University Council at the regular meeting in May to students under the Faculties of Political Science, Philosophy, and Pure Science, who are not over thirty years of age, under the following regulations:

1. They are open to all graduates of colleges and scientific schools whose course of study has been such as to entitle them to be enrolled at Columbia as candidates for one of the higher degrees.

2. They are tenable for one academic year, with a possibility of renewal for one year longer.

3. Applications should be filed in writing, not later than April 1.

4. In the awards preference will be given to those candidates for University Fellowships who have failed of appointment after having been recommended therefor by any faculty or department.

5. University Scholars will be required to enroll themselves as candidates for a higher degree and to pursue a regular course of study leading thereto.

6. Additional Scholars may be appointed by the Committee to fill any vacancies occurring otherwise than by the graduation of an incumbent.

7. A University Scholar may relinquish the income thereof without waiving his right to be designated as a University Scholar.

In recognition of the liberal gifts of William H. Vanderbilt to the College of Physicians and Surgeons, four scholarships, to be known as the "William H. Vanderbilt Scholarships," have been established. These are open to students of any class.

LOAN FUNDS

There are four funds (the Schiff, the Shoemaker, the Payne, and the Class of 1887 School of Mines Funds) available for short-term loans to needy students, which may be drawn upon by permission of the President.

MEDALS AND PRIZES

Essays submitted in competition for any of the following should, unless otherwise indicated, be submitted to the Secretary of the University not later than May 1, in the year of award. The essays should be signed fictitiously and should be accompanied by a sealed envelope containing the author's name and address. The awards are announced at Commencement and, unless otherwise indicated, are annual.

A gold medal of the value of \$200 established by the provisions of the will of President Barnard and endowed by him, known as the "Barnard Medal for Meritorious Service to Science," is awarded quinquennially (next award 1915) to such person, if any, whether a citizen of the United States or any other country, as shall within five years next preceding have made such discovery in physical or astronomical science, or such novel application of science to purposes beneficial to the human race, as in the judgment of the National Academy of Sciences of the United States shall be esteemed most worthy of such honor.

The H. C. Bunner Gold Medal, established by the friends of the late Henry Cuyler Bunner, or its equivalent in cash, is awarded to the candidate for a Columbia degree who shall present the best essay on an as-

signed subject in American literature. The award will be made by a committee to be appointed by the President. The subject for the essays to be handed in on May 1, 1914, is "The American Annual before 1850."

Curtis An endowment fund of \$1000 established by the late Samuel Putnam Avery, an associate of George William Curtis in the work of Civil Service Reform, provides for the award of two medals of gold and silver, or the equivalent in cash, to students in Columbia College for excellence in public delivery of English orations. Competitors must be either third- or fourth-year students in regular standing, or in exceptional cases, and with permission of the Dean, special students taking corresponding courses amounting to not less than 12 hours a week. The Department of English publishes about November 1 a list of subjects for the competition. Subjects not on the list may be chosen with the consent of the department provided that application be made not later than December 1. The contestants will be selected by the department at a preliminary competition which will not be open to the public. The award will be made by judges appointed by the President.

Illig A bequest of \$2000 left by William C. Illig, E.M., '82, provides for the annual award of medals at Commencement to the student or students in the graduating class of the Schools of Mines, Engineering, and Chemistry, who shall, in the judgment of the Faculty, have merited the same by commendable proficiency in their regular studies.

Society of Architects The Society of Columbia University Architects offers an annual medal for proficiency in advanced design.

Alumni Association (Medicine) The Alumni Association Prize of \$500 is awarded biennially (next award, 1914) to an alumnus of the College of Physicians and Surgeons for the best medical essay submitted upon any subject that the writer may select. Essays should be sent to the Secretary of the Alumni Association of the College of Physicians and Surgeons on or before April 1 of the year of award.

Alumni Association (College) A prize of fifty dollars in money or its equivalent "to the most faithful and deserving student of the graduating class" was established in 1885 by the Association of the Alumni of Columbia College. The graduating class selects the incumbent from three names submitted to it by the Faculty; or if, ten days prior to Commencement, the class should notify the President of the University of its failure to make a selection, the award may be made by the Faculty.

Bennett A prize established through a gift of \$1000 from Mr. James Gordon

Bennett may be awarded by the Faculty of Political Science for the best essay upon some subject of contemporaneous interest in the domestic or foreign policy of the United States. The competition is open to students not holding a baccalaureate degree who pursue courses amounting to six hours a week in the School of Political Science. The subject for 1914 is "Amendments to State Constitutions."

The Cartwright Prize of \$500 was endowed by a bequest of \$10,000 **Cartwright** left by Benjamin Cartwright, and is offered for competition in alternate years with the Alumni Association Prize.

It is awarded on the same terms as the latter, except that it is open to universal competition.

By the bequest of J. Winthrop Chanler, A.B. '47, the income of \$1000 **Chanler** is awarded annually, on Commencement Day, to the member of the graduating class of Columbia College, who, in the judgment of the Faculty, shall be the author of the best original manuscript essay on the history of civil government in America, or some other historical subject, the subject for 1913 being "Efforts at Conciliation by the British Government during the Revolution."

A prize, known as the E. B. Convers Prize (the annual income of the sum of \$1000), has been established in the School of Law in memory of E. B. Convers, of the Class of 1866. This prize will be awarded annually to such member of the graduating class in the Law School as may write the best original essay on some legal subject to be chosen from a list of ten subjects prepared each year by the Faculty of Law or on any other legal subject approved by the Faculty. **Convers**

The Edward A. Darling Prize in Mechanical Engineering, the income **Darling** of \$1000, bequeathed by Edward A. Darling, formerly Superintendent of Buildings and Grounds, shall be awarded annually to the most faithful and deserving student of the graduating class in Mechanical Engineering, the recipient of the prize to be chosen by ballot, by members of the graduating class in the course in Mechanical Engineering, from among three names to be chosen by the Faculty of Applied Science. For awards, see page 460.

A prize of \$50 established in memory of Mortimer Lamson Earle, In- **Earle** structor in Greek in Barnard College from 1889 to 1895 and from 1898 to 1900, and Professor of Classical Philology from 1900 to 1905, is open for annual competition to all candidates for the degree of Bachelor of Arts. It will be awarded partly on the basis of the regular work of the year in Greek and in Latin, partly on the basis of a special examination held in

May or June. The special examination will cover specified portions of Greek and Latin literature, sight-reading in Greek and in Latin, and prose composition in Greek and in Latin. For 1913 the special subject will be Thucydides, Book I (through chapter 138) and Lucan, Book VII. For awards, see page 460.

Einstein A prize known as the Einstein prize in American Diplomacy was established by Dr. and Mrs. Charles Waldstein in memory of Mr. and Mrs. D. L. Einstein. The prize is awarded annually at Commencement to that student who having been regularly enrolled in the University as a candidate for a degree for not less than two academic years shall be deemed by the Department of Public Law to have done the best and most original work in American Diplomacy.

Elsberg A prize to be known as the Albert Marion Elsberg Prize, established by Mrs. Albert Elsberg in memory of her son, Albert Marion Elsberg, of the class of 1905, shall be awarded annually to that student who, having been regularly enrolled in Columbia College as a candidate for a degree for not less than one academic year, shall be recommended by the Department of History for excellence in modern history. The prize shall consist of a medal and, at the option of the winner, \$50 or books having that value.

Seminary Regulations as to the Seminary prizes adopted by the Protestant Episcopal Society for Promoting Religion and Learning in the State of New York, at a stated meeting held on April 25, 1900:

Notice shall be given every year of the conditions of the prizes under the old regulations (see *Announcement of the College for 1900-01*, page 72), and applications invited. Wherever the conditions of the preceding competition show that one or both of the prizes have not been taken for lack of applicants, notice shall at the same time be given of the competition for the prize or prizes thus open under the new regulations set forth each year in the *Announcement of Columbia College*.

The Society's Greek Seminary Prize amounts to \$30 and the Society's English Prize to \$20.

Loubat Mr. Joseph F. Loubat has endowed two prizes of \$1000 and \$400, respectively, for the best works published in the English language upon the history, geography, archaeology, ethnology, philology, or numismatics of North America. The next award will be made in 1918. Competition is open, under the deed of gift, to all persons, whether connected with Columbia University or not, and whether citizens of the United States or of any other country. No treatise shall be eligible for the purposes of the competition except such as relate to the topics involving antiquarian research, or that refer to events prior to 1776. In order to insure

consideration of their works, authors are invited to send copies to the President of Columbia University not later than April 1 of the year in which the prize is to be awarded; but the competition will not be restricted to works thus submitted.

A prize to be known as the Ordronaux Prize in Law shall, by vote of the **Ordronaux** Faculty, be awarded annually to the candidate for the degree of Bachelor of Laws of at least one year's standing on the basis of general proficiency in legal study.

A prize to be known as the Charles M. Rolker, Jr., Prize, to be publicly **Rolker** awarded on Class Day, is provided for by a fund of the same name, the gift of Mrs. C. M. Rolker in memory of her son, Charles M. Rolker, Jr., of the Class of 1907. The income of the fund is to be awarded to the member of the graduating class of Columbia College deemed by his classmates the most worthy of special distinction as an undergraduate student, because of scholarship, participation in student activities, pre-eminence in athletic sports, or in any combination of these.

The fund for this prize was given by the relatives, friends, and pupils **Smith** of the late Dr. Smith, as a memorial of his services as Professor in the College of Physicians and Surgeons from 1826 to 1866. Under the provisions of the trust an annual prize of \$100 is awarded for the best essay on the subject of the year, presented by an alumnus of the College. The competing essays should be sent to the Dean of the College of Physicians and Surgeons on or before March 10.

The Grant Squires Prize, the income for five years of a fund of \$1000, **Squires** established by Grant Squires, A.B. '85, LL.B. '87, is awarded at the close of every quinquennial period, to such graduate conducting an original investigation of a sociological character as shall be adjudged most worthy by a Committee of Award, consisting of the President, the Professor of Sociology and one of the Professors of Political Economy appointed by the Faculty of Political Science. The next award will be in 1915. Such award shall be deemed to be a recognition of scientific ability and achievement, as well as an encouragement of research.

The Stevens Triennial Prize, value \$200, established by the late **Stevens** Alexander Hodgdon Stevens, M.D., formerly President of the College of Physicians and Surgeons, is open for universal competition. (Next award 1915.)

The Dean of the Medical Faculty, the President of the Alumni Association of the College of Physicians and Surgeons, and the Professor of Physiology are, ex-officio, the administrators of the prize. Essays must

be in the hands of the first named on or before January 1 of the year of award.

Stokes A prize of \$40, to be known as the Caroline Phelps Stokes Prize, shall be awarded annually to that student who having been regularly enrolled in Columbia College, or Barnard College, or Teachers College as a candidate for an academic degree for not less than one academic year shall be deemed to have written the best essay upon the rights of man as the committee on selectors shall determine.

Toppan A prize known as the Robert Noxon Toppan Prize, the income of an endowment of \$4000, in memory of Robert Noxon Toppan, LL.B. '61, is awarded annually to the member of the School of Law or of Political Science who shall pass the best written examination upon a paper prepared by the Professor of Constitutional Law.

Van Amringe A prize known as the Professor Van Amringe Mathematical Prize was established by George G. Dewitt of the class of 1867 by a gift of \$5000. The annual income of the fund is awarded at Commencement to that student who, having been regularly enrolled in Columbia College as a candidate for an academic degree for not less than one academic year and a half, and not more than two academic years, shall be deemed most proficient in the mathematical subjects designated during the year of award for Freshmen and Sophomores in the College. The examinations for the prize shall be held annually under the direction of the Department of Mathematics.

Van Buren A prize known as the John Dash Van Buren, Jr., Prize in Mathematics was established by Mrs. Louis T. Hoyt in memory of her nephew, John Dash Van Buren, Jr., a member of the Class of 1905. The annual income of \$5000 is awarded to the candidate for an academic degree who passes the best examination in analytical geometry, differential and integral calculus, and in such additional subjects as the Department of Mathematics may prescribe.

BARNARD COLLEGE

Scholarships There are forty-one scholarships for the benefit of students who need financial aid. For a detailed statement of their values, the conditions under which they are awarded, and the regulations regarding applications, see the *Barnard College Announcement*. For awards see page 460.

The competitive scholarships, awarded for excellence in entrance examinations or in college work, are as follows:

A. Open to Entering Freshmen: Trustees' Competitive Scholarship; Jessie Kaufmann Scholarship; Brooklyn Scholarships (12); Lucille Pulitzer

Residence Scholarships (3); Lucille Pulitzer Non-Residence Scholarships (3); Martha T. Fiske Scholarship.

B. Open to Students who have Passed at Least One Year in College: Eleanora Kinnicutt Scholarship; Emma A. Tillotson Scholarship; William Moir Scholarships (2).

The non-competitive scholarships, awarded to students needing financial aid and, as a rule, only to those who have passed at least one year in college, are as follows:

The Ella Weed Scholarship, the Veltin School Scholarship, the Jennie B. Clarkson Scholarship, the Emily James Smith Scholarship, the Anna E. Barnard Scholarship, the Brearley School Scholarship, the Eliza Taylor Chisholm Memorial Scholarship, the Graham School Scholarship, the Mrs. Donald McLean Scholarship, the Emma Hertzog Scholarship, the Mrs. Henry Clarke Coe Scholarship, the Mary Barstow Pope Scholarship.

There are four funds, the Arthur Brooks Fund, the Fiske Scholarship Fund, the George W. Smith Scholarship Fund, and the Charles Stewart Smith Scholarship Fund, available for needy and deserving students.

For a statement in regard to the conditions under which honors are awarded, see the *Barnard College Announcement*. For awards, see page 460.

A graduate fellowship is awarded each year as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work. The Fellowship is of an annual value of \$600. The holder is to pursue a year of graduate study at Columbia or any other university or college of approved standing. This fellowship will be awarded each year as soon as possible after the mid-year examinations. Students who have graduated in February will be eligible, as well as those who are to graduate in June.

For a statement in regard to prizes and the conditions governing their award, see the *Barnard College Announcement*. For awards, see page 460.

TEACHERS COLLEGE

Teachers College awards annually a number of fellowships, forty or more scholarships and a number of grants for foreign research, all, except where special announcement is made to the contrary, open to men and women alike.

A special Fellowship Fund, of not less than four thousand dollars, is assigned annually at the discretion of the Faculty to Fellows and Research Scholars; the normal assignment to a fellowship being five hundred, that to a research scholarship two hundred and fifty dollars. Applications for fellowships must be addressed to the Secretary of Teachers College, prior to March 1 preceding the academic year for which the appointment is desired, on blank forms which may be had upon request.

Scholarships Eight or more graduate scholarships, each of the annual value of one hundred and fifty dollars, for the term of one year, are awarded on the same general conditions as the fellowships. They may be renewed for a second term of one year in case the holder gives evidence of superior ability.

Teachers College established in 1910 a Foreign Research Fund to aid competent students in investigating special phases of education in foreign countries. In general this fund of one thousand dollars annually will be divided among several students so as to pay the extra cost of traveling and residence abroad. Recipients of grants will work under the direction of the professor in charge of the course in comparative education. On their return they will be required to submit the result of their investigations in a form suitable for publication.

The following undergraduate and special scholarships are awarded annually. Applications should be made in the same manner as for graduate scholarships, on blank forms provided by the Secretary of the College, to be returned for consideration prior to April 1 preceding the academic year for which the appointment is sought.

The Tileston Scholarship of the annual value of seventy-five dollars, founded by Mrs. Peter M. Bryson.

The Shackleford Scholarship of the annual value of seventy-five dollars, founded by the Misses Shackleford.

The Pierrepont Scholarship of the annual value of seventy-five dollars, founded through Miss Annie L. Pierrepont.

The Pond Scholarship of the annual value of seventy-five dollars, founded and endowed by Mrs. Frank Porter.

The Charlotte Louisa Williams Scholarship (open only to women), of the annual value of one hundred and fifty dollars, founded and endowed by Mrs. Peter M. Bryson and Miss Grace H. Dodge.

The Earl Scholarship (open only to men), of the annual value of one hundred and fifty dollars.

The Hoadley Scholarship of the annual value of one hundred and fifty dollars.

The Runyan Scholarship, established from the income of a fund given in memory of Mary Duncan Runyan, professor of kindergarten from 1897-1905.

The Livingston Scholarships, from a fund of the annual value of one thousand dollars.

The Delta Sigma Alumnae Scholarship of the annual value of seventy-five dollars, given by the Delta Sigma Alumnae Association.

The Caroline Scholarship, in Domestic Science, of the annual value of two hundred and fifty dollars, founded and endowed by Miss Caroline Phelps Stokes.

The Isla Stewart Scholarship, established by the alumnae of the Nurses

School of Saint Bartholomew's Hospital, London, awarded annually to one of their number.

Household and Industrial Arts Scholarships, from a fund of the annual value of one thousand dollars.

The Isabel Hampton Robb Scholarship of the annual value of two hundred and fifty dollars, given by Mrs. Helen Hartley Jenkins.

The Army and Navy Scholarship, founded by the Society of the Daughters of the Cincinnati, awarded annually to the daughter of an officer of the regular army or navy of the United States.

A prize of fifty dollars in gold and a silver medal is awarded annually **Prizes** by the Society of Colonial Dames to that student of Teachers College who presents the best essay on a topic connected with the colonial history of America. Papers must be presented to the head of the department of history on or before April 20. The topics are publicly announced several months in advance.

A prize of one hundred dollars is awarded annually by the United Daughters of the Confederacy to that student of Teachers College who presents the best essay on a topic connected with the activity of the South before or during the war between the States. Papers must be presented to the head of the department of history on or before April 20. The topics are announced several months in advance.

FELLOWS AND SCHOLARS 1913-1914

University Fellows	RAYMOND DUBOIS CAHALL.....	<i>Modern European History</i>
	EDWIN LEAVITT CLARKE.....	<i>Sociology</i>
	PAUL HENRY CLEMENTS.....	<i>International Law</i>
	JOHN SMITH DEXTER.....	<i>Zoölogy</i>
	FRANK ROSE ELDER.....	<i>Chemistry</i>
	JOHN DE LANCEY FERGUSON.....	<i>English</i>
	ERNEST WILLIAM HAWKES.....	<i>Anthropology</i>
	HENRY ALFRED HOLMES.....	<i>Romance Languages and Literature</i>
	CHARLES WILLIAM HONESS.....	<i>Geology</i>
	RICHARD H. PAYNTER.....	<i>Psychology</i>
	ALFRED HENRY STURTEVANT.....	<i>Zoölogy</i>
	GEORGE ADRIAN WASHBURN.....	<i>American History</i>

Tyndall Fellows	1891-92 WILLIAM H. FREEDMAN	1907-08 GEORGE B. PEGRAM
	1892-93 CHARLES R. MANN	1908-09 HAROLD WORTHINGTON
	1894-95 CHARLES R. MANN	WEBB
	1895-97 WALTER WHEELER COOK	1909-11 HENRY HOWARD MARVIN
	1897-98 No incumbent	1911-12 ANDREW WARREN JACKSON
	1898-1901 ROBERT BOWIE OWENS	1912-13 WILLIAM STOCKTON NELMS
	1901-03 BERGEN DAVIS	BENJAMIN LIEBOWITZ
	1903-04 FRANK LEO TUFTS	1913-14 WINTHROP ROBINS WRIGHT
	1904-07 FREDERIC COLUMBUS	
	BLAKE	

Barnard Fellows	1894-96 WILLIAM LISPENARD ROBB	1907-08 HAROLD WORTHINGTON
	1896-97 No incumbent	WEBB
	1897-1900 HEINRICH RIES	1908-11 CLEMENT S. BRAININ
	1900-03 JOHN ALEXANDER	1911-12 GEORGE ADDISON BOLE
	MATHEWS	1912-13 EDWARD SCHRAMM
	1903-05 WILLIAM CAMPBELL	1913-14 BENJAMIN LIEBOWITZ
	1905-07 CLARENCE WHITNEY	
	KANOLT	

Adams Re- search Fel- lows	1905-07 ERNEST FOX NICHOLS	1909-11 CLARK WELLS CHAMBER-
	1907-09 BERGEN DAVIS	LAIN
		1911-14 ROBERT W. WOOD

Fellow of American Archaeology and Ethnology	PAUL RADIN (First half of Academic Year)
---	---

1896 LEWIS BUFFET CARLL		Class of '70 Fellow
1901-02 JAMES WILFORD GARNER	1908-09 BLAINE FREE MOORE	Curtis Fel- lows
1902-04 CHARLES AUSTIN BEARD	1910-11 SYDNEY D. MOORE HUD- SON	
1904-06 CHARLES GROVE HAINES	1911-12 SAMUEL MACK EASTMAN	
1906-07 No incumbent	1913-14 ROBERT EUGENE CUSHMAN	
1907-08 EDWARD MCCHESENEY SAIT		
1894-96 JOHN KASSON LATHROP	1903-04 WALTER WHIPPLE ARNOLD	Drisler Fellows
1896-97 GEORGE N. OLCOTT	1904-05 No incumbent	
1897-98 WILLIAM T. F. TAMBLYN	1905-06 MACON ANDERSON LEIPER	
1898-99 CORLISS FITZ RANDOLPH	1906-08 CHARLES JONES OGDEN	
1899-1900 EDWARD CHARLES HAR- WOOD	1908-10 HUBERT MCNEILL POTEAT	
1900-01 BERT HODGE HILL	1910-11 IRVING COMES DEMAREST	
1901-02 No incumbent	1911-13 RHYS CARPENTER	
1902-03 HARWOOD HOADLEY	1913-14 CLARENCE AUGUSTUS MAN- NING	
1912-13 WILLIAM CARSON FRANCIS	1913-14 ERICH GUGLER	McKim Fellows
1905-06 MEYER JACOBSTEIN	1910-11 BENJAMIN MCALESTER AN- DERSON	Garth Fellows
1906-07 JAMES HENRY GILBERT	FRANK HATCH STREIGHT- OFF	
1907-08 LOUIS DWIGHT HARWELL WELD	1911-12 ROBERT MURRAY HAIG	
1908-09 SOLOMON VINEBERG	1912-13 PRABHAKER S. SHILOTRI	
1909-10 EDWARD HENRY LEWINSKI	1913-14 EDWIN CLYDE ROBBINS	
1905-06 GEORGE CHRISTIAN OTTO HAAS	1910-11 WILLIAM STUART MESSER	Gottsber- ger Fellows
1907-08 MEYER JACOBSTEIN	1911-12 FREMONT AMASA HIGGINS	
1909-10 RALPH WATSON DOX	1913-14 FREMONT AMASA HIGGINS	
1899-1901 MARY ANGELA DILLER	1908-09 FRANZ BELLINGER	Mosenthal Fellows
1902-04 FRANK EDWIN WARD	1910-11 EDWARD BETTS MANNING	
1904-05 BENJAMIN LAMBORD	1912-13 EDWARD KILENYI	
1906-07 WILLIAM JACOB KRAFT		
1900-03 JOHN ERSKINE	1910-11 GEDDES SMITH	Proudft Fellows in Letters
1903-05 STANLEY KIDDER WILSON	1911-12 NELSON BURROUGHS GIL- DERSLEEVE	
1905-06 No incumbent	1912-14 ELBRIDGE COLBY	
1906-07 CHARLES FRANCES LAW- SON	1913-14 ARCHIE AUSTIN COATES	
1907-10 ERNEST HUNTER WRIGHT		

Schiff	1898-1900	WILLIAM HENRY FRY	1907-08	CARL F. L. HUTH
Fellows	1900-01	WALTER PERCY BORDWELL	1908-09	LEONARD SCOTT BLAKEY
	1901-02	ULRICH BONNELL PHILLIPS	1909-10	CHARLES ELMER GEHLKE
	1902-03	GEORGE CHARLES SELDEN	1910-11	BENJAMIN BURKS KENDRICK
	1903-04	PRESERVED SMITH	1911-12	HENRY ELMER HOAGLAND
	1904-05	NORRIS ARTHUR BRISCO	1912-13	RAYMOND ROBERT AMARELL
	1905-06	CHARLES RAMSDELL LINGLEY	1913-14	DONALD SKEELE TUCKER
	1906-07	SAMUEL G. NISSENSON		
Carl Schurz	1902-03	JOHN LOUIS KIND	1908-09	PERCY GAINES CRAIG
Fellows	1904-05	ALLEN WILSON PORTERFIELD	1909-10	HENRY JOHN SKIPP
	1906-07	HENRY HERMANN LOUIS SCHULZE	1910-11	WILL CARSON RYAN, JR.
			1912-13	DAVID PERCY GILMORE
Mitchell	1908-10	IRVING COMES DEMAREST	1912-13	RANDOLPH SILLIMAN BOURNE
Fellows	1910-11	MAURICE PICARD	1913-14	PARKER LEROY MOON
	1911-12	LESTER SAUNDERS HILL		
Goldschmidt	1909-10	EDWARD CALVIN KENDALL	1911-12	HAROLD EDWARD WOODWARD
Fellows	1910-11	ALMER McDUFFIE McAfee	1912-13	JOHN SEAMAN BATES
			1913-14	CLARKE EDWIN DAVIS
Gilder	1911-12	WILLIAM SHEPHERDSON	1913-14	RANDOLPH SILLIMAN BOURNE
Fellows	1912-13	ARNOLD JOHNSON LIEN		FRANK ALEXANDER ROSS
		LYMAN B. VEEDER		PAUL WILLARD GARRETT
Industrial				
Research				
Fellow	1911-14	CARL HANER		
in Chemistry				
Advertising				
Research	1912-14	E. K. STRONG		
Fellow				
University		BRUCE SANKEY BIDDLE		<i>English</i>
Scholars		J. MALCOLM BIRD		<i>Mathematics</i>
		CALVIN BLACKMAN BRIDGES		<i>Zoology</i>
		RUFUS ARTHUR COLEMAN		<i>English</i>
		FRANK MICHAEL DEBATIM		<i>Classical Philology</i>
		JAMES FRANK DOBIE		<i>English</i>
		BENJAMIN ELWYN		<i>History</i>
		HYMAN GREENBERG		<i>Physics</i>
		RUFUS EMORY HOLLOWAY		<i>English</i>
		LEONARD AXEL LAWSON		<i>Ancient History</i>

MILLARD LESLIE LOWERY.....	<i>English</i>	
ROWLAND ROBBINS McELVARE.....	<i>Economics</i>	
ROBERT JAMES M'FALL.....	<i>Economics</i>	
CHARLES WILLIAM METZ.....	<i>Zoölogy</i>	
JOSEPH HENDERSHOT PARK.....	<i>Modern European History</i>	
ERNEST EDWARD SCHWARZTRAUBER.....	<i>Sociology</i>	
DOUGLAS RAMSAY SEMMES.....	<i>Geology</i>	
WALDO SHUMWAY.....	<i>Zoölogy</i>	
BRYCE MORRISON STEWART.....	<i>European History</i>	
JOHN HENRY WELLENKAMP.....	<i>Classical Philology</i>	
HORACE BOOKWALTER DRURY.....	<i>Economics</i>	President's University Scholars
GEORGE W. EDWARDS.....	<i>American History</i>	
SAMUEL HOWELL KNIGHT.....	<i>Geology</i>	
GEORGE LANDY.....	<i>Social Economy</i>	
GEORGE B. PARKS.....	<i>English</i>	
WALTER FRANK RITTMAN.....	<i>Chemistry</i>	
THOMAS HAYES UZZELL.....	<i>English</i>	
D. B. YOUNG.....	<i>Zoölogy</i>	
ETHEL BLACK.....	<i>Classical Philology</i>	Curtis University Scholars
CLARA DELLA MURPHY.....	<i>Mathematics</i>	
SARAH PARKER WHITE.....	<i>Philosophy</i>	
JUDITH BLOW WILLIAMS.....	<i>History</i>	
MARY SCHRUGHAM (Special).....	<i>History</i>	
1904-07 OTHO LEE MONROE	1910-11 GEORGE DENTON BEAL	Butler Scholars
1907-09 JOHN SHERMAN ROBINSON	1911-14 GEORGE GIVEN HOLLINGS- HEAD	
1909-10 HOWARD DWIGHT SMITH		
1898-99 FRANCIS BERTODY SUMNER	1906-07 DAVID DAY WHITNEY	Jones Scholars
1899-1900 JOHN CUTLER TORREY	1907-08 CHARLES V. MORRILL	
1900-01 FREDERICK CLARK PUAL- MIER	1908-09 DAVID DAY WHITNEY	
1901-02 WILLIAM E. KELLICOTT	1909-11 AARON FRANKLIN SHULL, Jr.	
1902-03 CHARLES ZELENY	1911-12 ALFRED HENRY STURTE- VANT	
1903-04 LOUIS I. DUBLIN	1912-13 JAMES P. KELLY	
1904-05 CHARLES RUPERT STOCK- ARD	1913-14 CHARLES WILLIAM METZ	
1905-06 JOHN HOWARD MCGREGOR		
<i>Columbia College</i>		
JOSEPH M. SHIMMON.....	Northern New York	Special Alumni Association Scholars
<i>Schools of Mines, Engineering and Chemistry</i>		
SIDNEY IERNE HOWELL.....	New Jersey	
<i>School of Journalism</i>		
JAMES DANAHY.....	Western New York	

Chinese Scholars Z. T. NYI
HUA-CHUEN MEI

Y. TSENSHAN WANG
T. TINGFANG LEW

Scandinavian Scholar

EINAR CORVIN

Barnard Medal Awards 1895 LORD RAYLEIGH and Professor WILLIAM RAMSAY
1900 Professor WILHELM CONRAD VON RÖNTGEN
1905 Professor HENRI BECQUEREL
1910 Professor ERNEST RUTHERFORD

Loubat Prizes *Award of 1893:* First Prize, "History of the United States of America during the Administration of Jefferson and Madison," by HENRY ADAMS

Second Prize, "Report of Investigation among the Indians of the Southwestern States," by A. F. BANDELIER

Award of 1898: First Prize, "Stone Implements of the Potomac-Chesapeake Tidewater Province," by WILLIAM HENRY HOLMES

Second Prize, "The Social Organization and the Secret Societies of the Kwakiutl Indians," by FRANZ BOAZ, PH.D.

Award of 1908: First Prize, "The American Colonies in the Seventeenth Century," by HERBERT LEVI OSGOOD, PH.D., LL.D.

Second Prize, "The History of the Society of Jesus in North America," by Rev. THOMAS ALOYSIUS HUGHES, S.J.

Award of 1913: First Prize, "The Old British Colonial System," by GEORGE LOUIS BEER, A.M.

Second Prize, "The Indian Tribes of the Lower Mississippi Valley," by JOHN REED SWANTON, PH.D.

Einstein Prize CARLYLE REGINALD BARNETT

Toppan Prize ARNOLD JOHNSON LIEN

Earle Prize in Classics LUCY REED POWELL
Honorable Mention: PINCUS HIRSCHCOPF

New Jersey Alumni Association *Columbia College:* RALPH REDMAN PERRY
Mining, Engineering and Chemistry: SYDNEY GRISWOLD BERRY

Philolexian Prizes *Essay:* First Prize, ADELBERT F. SMITHERS
Second Prize, ALVIN LIDDON GRAHAM
Debating: First Prize, JOHN KERNAN MCCORMICK
Second Prize, DUNCAN CAMPBELL
Oratory: First Prize, DUNCAN CAMPBELL
Second Prize, GEORGE WARREN CURTISS

Scholarships and Prizes

COLUMBIA COLLEGE

Class of 1915—BENJAMIN BRAVERMAN Class of 1916—WM. MALISOFF

Class of 1917—R. F. KANE

Alumni
Competitive
Scholarships

Class of 1914—JOS. LINTZ

Class of 1916—W. G. FOGG

Class of 1917—DAVID GOODMAN

Hewitt and
Harper
Scholarships

Class of 1914—B. GROSSBAUM

Class of 1915—D. ROTHENBERG, L. MARCUS, CHAS. ELSTEIN

Class of 1916—L. STERN, I. B. LEVINE, E. I. MAHON

Class of 1917—MEYER BERNSTEIN, JACOB LEVINE

Brooklyn
Scholarships

Class of 1915—P. M. GRANT, J. A. MURPHY

Louis K.
McClymonds
Scholarship*Names submitted in 1913*

GEORGE FORREST BUTTERWORTH, JR. PARKER LEROY MOON

HENRY VOGEL SHELLEY, JR. GERALD SPENCER SHIBLEY (Selected)

JAMES PERRY WILSON

Prize of the
Alumni As-
sociation

Gold Medal—JOHN WOODBRIDGE HERRING

Silver Medal—DUANE R. DILLS

Curtis
Medals

DAVID H. MOSKOWITZ

Van Buren
Prize

PARKER LEROY MOON

Rolker Prize

PARKER LEROY MOON

Elsberg Prize

JOSEPH JOHN TANZOLA

Van Amringe
Prize*Honors*

J. MALCOLM BIRD

MILTON KADISON

RALPH COLBY

JACOB J. LIND

PINCUS HIRSCHCOFF

PARKER LEROY MOON

EUGENE KLEIN

ALAN DE FOREST SMITH

JAMES PERRY WILSON

Highest
Final
General
Honors

CARLYLE REGINALD BARNETT

DAVID H. MOSKOWITZ

ALFRED L. BERNHEIM

HYMAN AARON OSSERMAN

ELBRIDGE COLBY

HENRY VOGEL SHELLEY, JR.

JAMES WILFORD FOOTE

GERALD SPENCER SHIBLEY

WALTER SCOTT KUPFER

JOHN HENRY WELLENKAMP

ALBERT LEVITT

SINCLAIR JOSEPH WILSON

General
Honors

SCHOOL OF LAW

1900-1901 CHARLES R. GANTER

E. P. GROSVENOR

1901-1902 HENRY STARR GIDDINGS

1903-1904 E. L. BEATTY

1902-1903 H. H. BABCOCK

1904-1905 JOHN M. GRIFFITH

Beck Prize

1905-1906	CHARLES B. SHELTON	1911-1912	F. P. FERGUSON
1906-1907	ROBERT LEROY		GARDNER P. LLOYD
1907-1908	CHARLES M. TRAVIS	1912-1913	SAMUEL G. LEVINSON
1908-1909	EDWARD H. HART		TRACY S. VOORHEES
1909-1910	WILDER GOODWIN		RICHARD R. B. POWELL
1910-1911	JEROME MICHAEL	1913-1914	CARL E. ERPF-LEFKO-
	P. S. ANDREWS		VICS
			GULLIE B. GOLDIN

**Convers
Prize** CHARLES E. HOBART

SCHOOL OF MEDICINE

**Proudfit
Fellows** 1904-08 LINSLEY RUDD WILLIAMS 1909 EDWARDS A. PARK
1912 RUSSEL L. CECIL

**Devendorff
Scholar** S. T. FORTUNE

**Alonzo Clark
Scholar** 1914 SAMUEL CLARK HARVEY

SCHOOL OF MINES, ENGINEERING AND CHEMISTRY

**Daly Schol-
arship** 1904-08 HENRY FARMER DAVIS 1908-11 CORNELIUS G. SULLIVAN
1911-14 FREDERICK S. WRIGHT

Illig Medals JAMES LESLIE CHEATHAM WHEADON MARTIN GRANT
MORRIS GOODWIN SHEPARD

**Darling
Prize** ADDISON E. AUGUSTINE MAX H. C. BROMBACHER, JR. (Selected)
THOMAS F. GITHENS

SCHOOL OF ARCHITECTURE

Columbia Fellows	1890-91	ARTHUR A. STOUGHTON	1906-07	EMILIO LEVY
	1892-93	HORACE B. MANN	1907-08	No award
	1894-95	SETH JUSTIN TEMPLE	1908-09	EDWARD JOHN STORK
	1896-97	WILLIAM KINNE FELLOWS	1909-10	WILLIAM LAWRENCE BOT-
	1898-99	WILLIAM CLARK AYRES		TOMLEY
	1900-01	THEODORE BLONDEL, JR.	1910-11	GERARD PITT
	1902-03	ARTHUR WARE	1911-12	WILBUR NICHOLAS AL-
	1904-05	HUBERT VAN WAGENEN, JR.		BERTSON
	1905-06	THOMAS WILLIAM LUDLOW	1911-12	WILBUR N. ALBERTSON
			1912-13	No award
McKim Fellows	1891-92	A. C. M. DEL MONTE	1898-99	JOHN RUSSELL POPE
		ALEXANDER M. WELCH		HARRY ALLAN JACOBS
	1893-95	GEORGE OAKLEY TOTTEN, JR.	1899-1901	LIVINGSTON PELL
		WILLIAM LINCOLN THORNE		WILLIAM EDWARD PAR-
				SONS
	1895-97	JOHN RUSSELL POPE	1901-02	CHARLES LUDWIG OTTO
	1897-98	HARRY ALLAN JACOBS		EDWARD NECARSULMER

1903-04 FRANCIS AUGUSTUS NELSON	1907-09 WILLIAM LAWRENCE BOT- TOMLEY
GEORGE WASHINGTON JACOBY	1909-11 CHARLES THEODORE EMILE DIETERLEN
1904-05 No incumbent	1911-13 WILLIAM C. FRANCIS
1905-07 LUCIEN EASTER SMITH	1913-14 ERICH GUGLER
1902-03 CHARLES SUMNER KAISER	1906-07 ARTHUR LOBO
1910-11 H. D. SMITH	

Perkins
Fellows

Medal of the
Society of
Columbia
University
Architects

PAUL SCHULZ

BARNARD COLLEGE

Trustees' Competitive Scholarship: MADELEINE DILLAY

Jessie Kaufman Scholarship: RUTH ESTELLE GUERNSEY

Brooklyn Scholarships:

ALICE MORTIMER BAILEY	GERTRUDE RAFF
EDNA LONIGAN	GEORGINA IDA STICKLAND
ELEANOR WILSON PARKER	MABEL WEIL
KATHARINE WILLIAMS	

Lucille Pulitzer Scholarships:

ELEANOR HEERMANCE HUBBARD	LOUISE TALBOT
GLADYS LOUISE PALMER	

Lucille Pulitzer Non-residence Scholarships:

DOROTHY MARGUERITE BLONDEL	SOPHIE IDA BULOW
GRACE RICHARDSON MERRITT	

Martha T. Fiske Scholarship: HELEN BRIGGS SHIPMAN

Eleanora Kinnicutt Scholarship: LILLIAN SOSKIN

Emma A. Tillotson Scholarship: MARGARET CHRISTINA KING

William Moir Scholarships:

LOUISE ELIZABETH ADAMS	HARRIET WINSHIP POORE
------------------------	-----------------------

Graduate Fellowship: LUCY REED POWELL

Hermann Botanical Prize: MARY WOTHERSPOON STEWART

Honorable mention, CAROLINE AUSTIN DUROR

Kohn Mathematical Prize:

ETHEL MAY HAWKEY

BESSIE NELSON MACDONALD

SALLIE EUGENĀ PERO

Jenny A. Gerard Gold Medal: HELEN AUGUSTA FOLAND

Speranza Prize in Italian: HARRIET WINSHIP POORE

Honors

Departmental

Chemistry: VIOLA TURCK, *Final*

Classical Philology: RUTH ESTELLA GUERNSEY *Third Year*; GERTRUDE ELIZABETH MORRIS, *Final*; MARY VOYSE, *Final*

Economics: MADELAINE EMILY BUNZL, *Final*

English: CONSTANCE ISABEL BARNET, *Second Year*; GRACE LOUISE HUBBARD, *Second Year*; EMILY GORDON LAMBERT, *Second Year*; LILLIAN SOSKIN, *Second Year*

French: BETTY REBA ALEXANDER, *First Year*; GRACE DERBY BANKER, *Second Year*; ALICE MARIE-LOUISE BRETT, *Second Year*; MARGARET CLARIHEW, *First Year*; RITA HILBORN, *Final*; MARGARET CHRISTINA KING, *First Year*; ELEANOR NEWTON WALLACE, *First Year*

German: SOPHIE IDA BÜLOW, Second Year; LUCY GRACE COGAN, Second Year; MARJORIE LORNE FRANKLIN, Final; CATHERINE CARRIE FRIES, Second Year; MARIETTE LOUISE GLESS, Final; BEATRICE DANZIG HEINEMANN, Third Year; ELIZABETH PALMER, Second Year; ANNA BEATRICE SALZMAN, Final; LILLIAN SOSKIN, Second Year

History: ISABELLA PRESTON DOUGLAS, *Final*; HELEN AUGUSTA FOLAND, *Final*; JEANNE H. JACOBY, *First Year*

Mathematics: ESTELLE DE YOUNG, *Third Year*; CLARA LILLIAN FROELICH, *Second Year*; ETHEL MAY HAWKEY, *Final*; BESSIE NELSON MACDONALD, *Final*; SALLIE EUGENA PERO, *Final*; GERTRUDE RAFF, *Third Year*; EDITH EVA STIRN, *Second Year*; MABEL WEIL, *First Year*

Philosophy: MURIEL GLADYS SLADE, *Final*

Physics: ESTELLE DE YOUNG, *Third Year*; ETTA VIOLET FRIEND,
Final; GERTRUDE RAFF, *Third Year*; MABEL WEIL, *First Year*

Psychology: ESTELLE DE YOUNG, *Third Year*; EDITH FRANCES MULHALL, *Third Year*

SCHOLARSHIPS AND PRIZES

465

Spanish: CLARA MAYER, *Second Year*

Zoölogy: ELEANOR MARGUERITE OERZEN, *Final*

Classical Philology: GERTRUDE ELIZABETH MORRIS

French: RITA HILBORN

Mathematics: ETHEL MAY HAWKEY, SALLIE EUGENA PERO

**Highest
Final De-
partmental**

HELLA FELICITAS BERNAYS

EDITH HALFPENNY

ETHEL MAY HAWKEY

RITA HILBORN

JOSEPHINE CECILE MELSHA

AMELIA ROBINSON MUMFORD

HARRIET SEIBERT

**Highest
Final
General**

LOUISE ELIZABETH ADAMS

ELSA GERTRUDE BECKER

DOROTHY MARGUERITE BLONDEL

SOPHIE IDA BÜLOW

SARAH SCHUYLER BUTLER

NANCY GILLMORE CORYELL

ESTELLE DE YOUNG

CAROLINE AUSTIN DUROR

SADIE ENGEL

RUTH GRAAE

RUTH ESTELLE GUERNSEY

BEATRICE DANZIG HEINEMANN

MARGARET CHRISTINA KING

CLARA MAYER

SIDNEY LOUISE MINER

GERTRUDE ELIZABETH MORRIS

RUTH ANNA OSTERBERG

ELIZABETH PALMER

GLADYS PEARSON

MARGARET PECK

GERTRUDE RAFF

GERTRUDE SCHUYLER

EMMA SEIPP

MARY VOYSE

ELEANOR NEWTON WALLACE

BERTHA WEAVER

General

TEACHERS COLLEGE

Honorary Fellows for 1913-14

ERNEST HORN

WILLIAM FLETCHER RUSSELL

Francis E. Field Fellow: LIVINIA TALLMAN

Research Scholars

LULA OCILLEE ANDREWS

WILLIAM THOMAS BAWDEN

MATTHIAS BOEHMKE

THOMAS JOHN BREITWIESER

ALFRED WATKINS CASTLE

JAMES CROSBY CHAPMAN

EZRA THOMAS FRANKLIN

ZEBULON JUDD

FREDERICK JAMES KELLY

JESSIE LATTO LOWSON

ARTHUR RAYMOND MEAD

JAMES WILLIAM NORMAN

HENRIETTA V. RACE

Graduate Scholars

GEORGE MARSHALL BAKER	WILLIAM ELMER SEALOCK
JAMES ALFRED CAMPBELL LEWIS	ROBERT HERBERT SHANKS
LEON RENFROE MEADOWS	MARGARET B. STANTON
HOWARD VINCENT PICKERING	MARION REX TRABUE
JOHN LAWRENCE RILEY	JAMES BELL WELLES

Undergraduate Scholars*Tileston Scholar:* LIDA LEE TALL*Schakleford Scholar:* WINIFRED MAUD CARPENTER*Pierrepont Scholar:* ANNIE ELIZABETH HOWARD*Charlotte Louisa Williams Scholar:* MARY MAUD PATRICK*Earl Scholars*

DALLAS DEVELLO JOHNSON	WARREN NEVIN DRUM
------------------------	-------------------

Hoadley Scholar: LOUIE MAY MINER*Jenkins Scholars*

MADELINE DARROUGH	IVA ELEANOR MESTON
MAUD KEATOR	IRENE MILLER STEELE
HANNAH AMANDA KIEFFER	MARION LA VERNE TUCKER
EDNA MARTHA WAY	

Runyan Scholar: MILDRED JULIAN**Livingston Scholars**

JOHN NORTON ESPEY	LILLIAN ELBRIDGE NICHOLS
TOKI IWASAWA	KEVORK AVEDIO SARAFIAN
CHARLES SKULL KEEN	BENJAMIN FRANK SHIVELY
EDA LAURA KING	ANDREW ANSLEY THOMPSON
JEAN RICHARDSON LINGLE	DORA ZIMMERMAN

Undergraduate Scholar: ANNA MARIA BARRINGER**Practical Arts Scholars***Caroline Scholars*

ETHEL RONZONE	BESSIE CHAMBERS LEFTWICH
---------------	--------------------------

Scholars in Practical Arts

MARY MARGARET COLLINS	ANNA EVALYN NORTON
EVELYN STUYVESANT BARTEL	MABEL GERTRUDE REED
MARTHA LUCILLE ECKLEBERRY	STELLA MAY SONDEHEIM
MARGERY MANOCK	ELEANOR FRANCES WELLS
CHARLENE MILDRED NARGNEY	CAROLINE JOHANNA WORTMANN

Army and Navy Scholar: HARRIET BACHE

Isabel Hampton Robb Scholar: HELEN WOOD

Isabel Hampton Robb Memorial Fund Scholar

BESSIE ELY AMERMAN

Porto Rican Scholars

CARMEN DE GOENAGA SANJURJO

LUCILA MERCADO

CARLOTA MATIENZO

ERNESTINA SALIVA

Mississippi Scholar

LENA BOYD ELLINGTON

Prizes

Colonial Dames: JESSIE ALLISON SAYERS

United Daughters of the Confederacy, HORTENSE HERMAN

COLLEGE OF PHARMACY

Award in 1913

Kappa Psi Gold Medal

ISAIAH A. SOLOMONS, JR.

Faculty Graduate Prize

ISAIAH A. SOLOMONS, JR.

EXCHANGE PROFESSORS

**Theodore
Roosevelt
Professors**

- 1906-07 JOHN WILLIAM BURGESS, Ph.D., LL.D., Jur.D., *Ruggles Professor of Political Science and Constitutional Law, and Dean of the Faculty of Political Science in Columbia University.*
- 1907-08 ARTHUR TWINING HADLEY, Ph.D., LL.D., *President of Yale University.*
- 1908-09 FELIX ADLER, Ph.D., *Professor of Social and Political Ethics in Columbia University.*
- 1909-10 BENJAMIN IDE WHEELER, Ph.D., LL.D., *President of the University of California.*
- 1910-11 CHARLES ALPHONSO SMITH, Ph.D., *Edgar Allan Poe Professor of English in the University of Virginia.*
- 1911-12 PAUL S. REINSCH, Ph.D., *Professor of Political Science in the University of Wisconsin.*
- 1912-13 WILLIAM M. SLOANE, LL.D., LL.D., *Seth Low Professor of History in Columbia University.*
- 1913-14 PAUL SHOREY, Ph.D., *Professor of Greek in the University of Chicago.*

**Visiting
Professor
in Austria**

- 1913-14 GEORGE S. FULLERTON, Ph.D., *Professor of Philosophy in Columbia University.*

**Visiting
Professor,
University
of Paris**

- 1913-14 WILLIAM D. GUTHRIE, A.M., *Ruggles Professor of Constitutional Law in Columbia University.*

**Kaiser
Wilhelm
Professors**

- 1906-07 HERMANN SCHUMACHER, Jur.D., *Professor of Political Economy in the University of Bonn.*
- 1907-08 K. G. RUDOLF LEONHARD, J.U.D., *Professor of Legal Science in the University of Breslau.*
- 1908-09 ALBRECHT F. K. PENCK, Ph.D., Sc.D., *Professor of Geography in the University of Berlin.*
- 1909-10 CARL RUNGE, Ph.D., *Professor of Applied Mathematics in the University of Göttingen.*
- 1910-11 ERNST DAENELL, Ph.D., *Professor of Modern History in the University of Kiel.*

- 1911-12 JOSEF SCHICK, Ph.D., *Professor of English Philology in the University of Munich.*
- 1912-13 FELIX KRUEGER, Ph.D., *Professor of Experimental Psychology in the University of Halle.*
- 1913-14 KARL F. TH. RATHGEN, Ph.D., *Professor of Political Economy in the Colonial Institut, Hamburg.*
- 1911-12 GUSTAVE LANSON, Litt.D., *Professor of the History of Literature in the University of Paris.* **Visiting French Professors**
- 1912-13 HENRI BERGSON, Litt.D., *Professor of Philosophy in the University of Paris.*
- 1913-14 JEAN PERRIN, Sc.D., *Professor of Physical Chemistry in the University of Paris.*
- 1913-14 JOSEF SCHUMPETER, Jur.D., *Professor of Political Economy in the University of Graz.* **Visiting Austrian Professor**
- 1913-14 LEONARD CHARLES VAN NIPPEN, A.M. **Queen Wilhelmina Lecturer**

STATED LECTURESHIPS

- Jesup
Lecturers** 1905-06 Professor OSBORN—The Evolution of the Horse
 1908-09 Professor MACLAURIN—Light
 1910-11 Professor LEE—Scientific Features of Modern Medicine
 1912-13 Professor T. H. MORGAN—Heredity and Sex

- Blumenthal
Lecturers** 1907-08 ALBERT SHAW, LL.D.—Practical Problems in American Politics
 WOODROW WILSON, Ph.D., LL.D.—Party Government in the
 United States
 1908-09 JEREMIAH W. JENKS, Ph.D., LL.D.—The Principles of Politics
 from the Viewpoint of the American Citizen
 1909-10 HENRY JONES FORD—Cost of National Government
 SAMUEL W. MCCALL, LL.D.—The Business of Congress
 1912-13 JOHN SHARP WILLIAMS—The Permanent Influence of Jefferson
 on American Institutions

- Hewitt
Lecturers** 1901-02 Professor BURR—Civil Engineering Subjects
 1902-03 Professor J. G. CURTIS—Physiology of the Nervous System and
 the Related Parts
 1903-04 Professor CLARK—The Problem of Monopoly
 1904-05 Professor TRENT—Six Writers of the 18th Century
 1905-06 Professor COHN—Republican France
 1906-07 Professor CRAMPTON—Doctrine of Evolution
 1907-08 Professor SHEPHERD—South America
 1908-09 Professor GIES—The Chemistry of Digestion
 1909-10 Professor LUCKE—Power
 1910-11 Professor LAWRENCE—Social Ideal in Popular Stories
 1911-12 Professor SHOTWELL—The Industrial Revolution
 1912-13 Professor MONTAGUE—The Great Systems of Philosophy
 1913-14 Dean STONE—

- | | | |
|---------|---|---------------------------------|
| 1905-06 | JAMES BRYCE, LL.D.—Law in Its Relations to History | Carpentier
Lecturers |
| 1908-09 | JOHN CHIPMAN GRAY, LL.D.—The Nature and Sources of the Law | |
| 1910-11 | DAVID JAYNE HILL, LL.D.—The Problem of World Organization as Affected by the Nature of the Modern State | |
| 1911-12 | Sir FREDERICK POLLOCK—The Genius of the Common Law | |
| 1913-14 | Sir COURTENAY ILBERT—The Mechanics of Law Making | |

ALUMNI COUNCIL

In order to afford the alumni direct and responsible representation upon the Board of Trustees of the University, six of its members may be nominated, subject to certain conditions, by the alumni. The trustees elected upon such nomination are styled "alumni trustees," the three now in office being Benjamin Bowden Lawrence, '78 S, William Fellowes Morgan, '80, '84 S, and James Duane Livingston, '80. Five general and eighteen local associations sent delegates to the meeting called for the nomination of the third alumni trustee.

The Alumni Council maintains an office in Room 311 East Hall and serves as a clearing house for all alumni activities. It publishes the *Columbia Alumni News*, the official alumni publication.

ALUMNI ORGANIZATIONS

General

Alumni Council.—J. Howard Van Amringe, '60, chairman; George Brokaw Compton, '09, secretary, Columbia University.

Society of the Older Graduates.—Pierre de P. Ricketts, '71 S, '76 Ph.D., president; William de L. Benedict, '74 S, secretary, 19 Cedar Street.

Society of the Early Eighties.—Francis E. Ward, '81 S, president; Girard Romaine, '82, secretary, 68 Broad Street.

Society of the Upper Eighties.—Arthur S. Dwight, '85 S, president; Edward L. Dodge, '88, secretary, 32 Nassau Street.

Columbia College.—William A. Meikleham, '86, president; George Brokaw Compton, '09, secretary, Columbia University.

School of Medicine.—Walter Mendelson, '79 M, president; Henry E. Hale, Jr., '96 M, secretary, 770 West End Avenue.

School of Law.—George L. Ingraham, '69 L, president; Lawrason Riggs, Jr., '03, '06 L, secretary, 27 William Street.

School of Mines, Engineering, and Chemistry.—Benjamin B. Lawrence, '78 S, president; Ralph E. Mayer, '79 S, secretary, Columbia University.

School of Fine Arts.—Goldwin Goldsmith, '96 Arch., president; Shiras Campbell, '04 Arch., secretary, 103 Park Avenue.

Doctors of Philosophy.—Rudolf Tombo, Jr., '01 Ph.D., president; Adam LeRoy Jones, '98 Ph.D., secretary, Columbia University.

Barnard College.—Alice G. Chase, '96, president; Mrs. A. D. Compton, '01, secretary, 2 St. Nicholas Terrace.

Teachers College.—Anna M. Clark, '04 A.M., president; Flora

Cutting, '08 A.M., secretary, 99 Java Street, Brooklyn.

College of Pharmacy.—Dr. Joseph Weinstein, '06 Phar., president; George Hohmann, '08 Phar., secretary, 115 W. 68th St.

Local

California Association.—J. R. Clark, '95 M, president; John C. Spencer, '82, '85 M, secretary, Butler Building, San Francisco, Cal.

China Association.—Dr. F. L. Hawks-Pott, '83, president; F. E. Hinckley, '05 Ph.D., secretary and treasurer, District Attorney, United States Court for China, Shanghai, China.

Colorado Association.—Francis E. Bouck, '95, president; John E. Fetzner, '08 L, secretary and treasurer, 824 Equitable Building, Denver, Colo.

Columbia (Missouri) Association.—Isidor Loeb, '01 Ph.D., president; E. W. Hinton, '91 L, secretary, Columbia, Mo.

Connecticut Association.—Rev. N. Ellsworth Cornwall, '62, president; John D. Irving, '96, secretary, Yale University, New Haven, Conn.

Cuba.—Jose Primelles, '87 S, president; Humberto Fonts, '09 S, secretary, Empedrado 59, Havana, Cuba.

District of Columbia Association.—Marcus Benjamin, '78 S, presi-

dent; George O. Totten, Jr., '91 Arch., secretary, 808 17th Street, N. W., Washington, D. C.

Illinois Association.—William M. L. Fiske, '00, president; Dr. Emory Hill, '04, secretary and treasurer, 22 E. Washington St., Chicago, Ill.

Indiana Association.—M. Thorner, '98 M, president; Mark H. Miller, '07 L, secretary, Lemcke Building, Indianapolis, Ind.

Japan.—Prof. Naokichi Matsui, '78 S, president; Rev. Kentok Hori, '07 A.M., secretary, College of Literature, Imperial University of Tokio, Tokio, Japan.

Kansas City Association.—John C. Meredith, '86 L, president; Walter S. Sutton, '07 M, secretary, 810-815 Rialto Building, Kansas City, Mo.

Kentucky Association.—F. A. Busse, '03 S, secretary, 800 Third Street, Louisville, Ky.

Madison (Wisconsin) Association.—John L. Kind, '06 Ph.D., president; secretary, resigned.

Mexico.—Victor M. Braschi, '81

S, president; Herbert C. Enos, '06 S, secretary, P. O. Box 1583, Gante No. 1, Mexico City, Mexico.

Michigan Association.—E. Taylor Tappey, '79 M, president; Theodore A. McGraw, Jr., '02 M, secretary, 73 Cass Street, Detroit, Mich.

Minnesota Association.—Amos W. Abbott, '69 M, president; Prof. Gregory D. Walcott, '99 A.M., '04 Ph.D., secretary and treasurer, Hamline University, St. Paul, Minn.

Nashville Association.—Paul F. Eve, '80 M, president; Eugene Tavenner, '01, secretary, Murfreesboro, Tenn.

Nebraska Association.—Harley G. Moorhead, '02 L, president; Dr. C. Pollard, '99 M, secretary, Paxton Block, Omaha, Neb.

New England Association.—Friedrick R. Kneeland, '99 S, president; Franklin S. Hoyt, '05 A.M., secretary and treasurer, care Houghton, Mifflin & Co., 4 Park Street, Boston, Mass.

New Jersey Association.—Robert Arrowsmith, '82, president; Joseph D. Sears, '11, secretary, 425 Franklin Street, Bloomfield, N. J.

New York (Northern) Association.—Roelif H. Brooks, '00, president; Barnard S. Bronson, '08, secretary, State Normal School, Albany, N. Y.

New York (Western) Association.—Thomas F. Cook, '04 S, president;

A. H. Hopkins, '08 F. A., secretary, German Insurance Co. Building, Buffalo, N. Y.

North Carolina Association.—Charles L. Raper, '02 Ph.D., president; Henry J. Highsmith, T.C., secretary and treasurer, Wake Forest College, Wake Forest, N. C.

Ohio (Northern) Association (Cleveland).—H. G. Sherman, '80 M, president; Frederic William Striebing, '95 Arch., secretary and treasurer, 1215 New England Building, Cleveland, Ohio.

Ohio (Central) Association (Columbus).—Organization informal. Address Professor F. P. Graves, '90, Ohio State University, Columbus, O.

Paris Association.—Charles F. Beach, Jr., '81 L, secretary, 95 rue des Petits-Champs, Paris, France.

Pennsylvania (Philadelphia) Association.—C. Summer Witherstine, '78 M, president; H. F. Sanville, '92 S, secretary-treasurer, Hale Building, Philadelphia, Pa.

Pennsylvania (Pittsburgh) Association.—Charles L. Miller, '82 S, president; J. H. Marsching, '02 A.M., secretary, University Club, Pittsburg, Pa.

St. Louis Association.—Hon. Julius S. Walsh, '64 L, president; William E. Baird, '02 L, secretary and treasurer, Law Dept., City Hall, St. Louis, Mo.

Utah.—Alvah C. Lewis, '77 M, president; C. H. Doolittle, '85 S, secretary, 1242 East South Temple, Salt Lake City, Utah.

Virginia Association. — M. A. Martin, '05 A.M., president; Jackson Davis, '08 A.M., secretary and treasurer, Board of Examiners, Petersburg, Va.

Washington Association.—O. H. P. La Farge, '00 Arch., president;

H. K. Benson, '07 Ph.D., secretary, University of Washington, Seattle, Wash.

Wisconsin Association. — Alfred W. Gray, '99 M, president; H. W. Buemming, '95 Arch., secretary, 521 Jackson Street, Milwaukee, Wisconsin.

Yonkers Association. — Thomas Ewing, Jr., '85, president; James F. Prince, '08, secretary, 149 N. Broadway, Yonkers, N. Y.

UNIVERSITY PUBLICATIONS

I. Official Publications of Columbia University

Unless otherwise stated, all the publications named below are distributed without charge upon application to the Secretary of Columbia University.

A University Bibliography containing a list of publications, contributions, and serial studies from the University, a list of publications of the officers for the year 1913, and a list of journals issued under the editorial direction of the officers, will be published in March, 1914.

II. The Columbia University Press

The Columbia University Press was organized with the approval of the Trustees of Columbia College and was incorporated June 8, 1893, for the purpose of promoting the publication of works embodying the results of original research. The Press is a private corporation, related directly to Columbia University by the provisions that its Trustees must always be officers of the University, and that the President of the University shall be the President of the Press.

Trustees

THE PRESIDENT OF THE UNIVERSITY (*ex-officio*)

WILLIAM H. CARPENTER, *Secretary*

JOHN B. PINE, *Treasurer*

Professors MATTHEWS, GIDDINGS, WILSON, TRENT, LEE, and A. H. THORNDIKE, and Mr. JOHNSTON

III. Alumni and Student Publications at Columbia University

The Alumni Journal.—1893; published monthly in the interest of the Alumni Association of the College of Pharmacy; per copy, 10c.; per year, \$1.

The Barnard Bear.—1905; a literary supplement to the Barnard Bulletin; stories, verse, essays, editorials; monthly, Nov. to June; per copy, 20c.; per year, \$1.50.

The Barnard Bulletin.—1901; four pages, weekly, Barnard College news; per copy, 5c.; per year, \$1.50.

The Columbia Alumni News.—1909; twelve pages, weekly; except June, July, August, and September, when it is published monthly; Alumni University, and faculty news; per copy, 10c.; per year \$3.00. Robert Arrowsmith, '81, editor; R. A. Meyers, '02, business editor.

- The Bulletin of the Society of Columbia University Architects.**—1906; alumni notes, news of the School of Architecture, etc.; published irregularly; per copy, 10c.; per year, 25c.
- The Columbia Bluebook.**—1900; a small handbook, containing information in regard to every form of student activity at Columbia and an engagement calendar; published by the Christian Association and distributed free to all new students in the University each year; editor for 1912-13, G. Reynolds Stearns, Jr., '13.
- The Columbia Jester.**—1901; an illustrated comic paper, monthly during the college year; averages ten pages of reading matter with illustrations, cartoon, and a cover; per copy, 15c.; per year, \$1.00 (by mail, \$1.20).
- The Columbia Law Review.**—1901; legal articles and book reviews by writers of recognized authority, and comment upon recent cases by the editors; edited by a board of about sixteen students of the school of Law; monthly, November to June (70 pp.); per copy, 30c.; per year, \$2.00.
- The Columbia Monthly.**—Founded in 1903, by the combination of the *Columbia Literary Monthly* (1893) and *Morningside* (1896); an illustrated magazine; articles on Columbia University, of historical and of immediate interest, stories, verse, essays, editorials, and book reviews; monthly, November to June; per year, \$1.00.
- The Columbia University Quarterly.**—1899; a magazine of general University information; quarterly; averages one hundred and twenty pages; per copy, 30c.; per year, \$1.00; R. Tombo, Jr., managing editor.
- The Columbian.**—The annual; a bound, illustrated volume, containing statistics of athletics, fraternity membership, class achievements, and other information concerning student life; published by third-year men, six elected from Columbia College and six from the Schools of Applied Science. Volume XXIII was published by the class of 1913.
- The Columbia Spectator.**—1877; published daily, except Sunday, edited by a managing board of five, assisted by a board of six editors, and from twelve to twenty-five associate editors; per copy, 3c.; per year, \$3.50.
- The Dorms.**—1906; a bulletin of affairs at the dormitories; eight pages, weekly during the college year; dormitory news, short articles, editorials, poems, cartoons; per copy, 5c.; per year, 75c.
- The Household Arts Review.**—1908; published three times a year by the Household Arts Club of Teachers College; articles on household arts topics, book reviews, college notes, editorials, illustrations; per copy, 20c.; per year, 50c.

The Mortarboard.—1897; an annual corresponding to the *Columbian* but more literary in character, including, besides the history of the junior class, poems, stories, sketches, etc.; published by a board of about eight third-year students of Barnard College; price, \$1.00.

The School of Mines Quarterly.—Published quarterly in the interest of the School of Mines; per copy, 25c.; per year, \$2.00.

The Senior Class-Book.—A book privately printed by the graduating class of Columbia College, through an editorial board, and distributed on class-day. Revived by the class of 1899, it has been continued by the succeeding classes; includes pictures and autobiographies of the members, letters from the faculty, and the class-day speeches.

Year-Book of the Columbia University School of Architecture.—1904; architectural annual, published by the Architectural Society, showing work in the departments of design and drawing.

Annual Catalogue: See Table of Contents, pages iii-x. Issued each December. Price, 25 cents.

Annual Reports of the President and the Treasurer to the Trustees: issued each November.

Directory of Officers and Students: issued each year soon after the opening of the University; contains the names, office hours, and addresses of the officers of the University, and the names and addresses of the students registered up to the time of publication.

General Catalogue of the Alumni: issued sexennially; contains the names and addresses of all graduates of the University. The current edition is that of 1912. Price, \$2.00. For sale at the University Press Bookstore and in the office of the Alumni Council.

Announcements of the various parts of the work of the University are issued in the spring of each year and contain detailed information concerning admission, expenses, courses of instruction to be given during the coming year, and requirements for degrees. They include:

Columbia College, for the work for men leading to the degree of Bachelor of Arts.

School of Law, for the work leading to the degree of Bachelor of Laws.

College of Physicians and Surgeons, for the work leading to the degree of Doctor of Medicine.

Schools of Mines, Engineering, and Chemistry, courses in Mining and Metallurgy, in Chemistry, and in Civil, Electrical, and Mechanical Engineering.

School of Journalism, for the work leading to the degree of Bachelor of Literature.

Faculties of Political Science,

Philosophy, and Pure Science, for all non-professional advanced work leading to the degree of Master of Arts and Doctor of Philosophy.

Faculty of Fine Arts, including courses given in the School of Architecture, the School of Music, the School of Design, and in the Departments of Fine Arts and Music in Teachers College, and courses in allied subjects.

Extension Teaching.

Residence Halls.

Summer Session.

Circular of Information as to

Entrance Examinations and Admission.

Student Organizations, Athletic and Other, under the supervision of the Comptroller of Student Organizations.

Announcements of the several divisions of the University are issued in the spring, and contain full information concerning the work of the coming year, or years, in those divisions. These circulars are devoted to Ancient and Oriental Languages; Biology; Chemistry; Geology, Geography, and Mineralogy; History, Economics, and Public Law; Mathematical and Physical Science; Modern Languages and Literatures; Physical Education; Philosophy, Psychology, and Anthropology.

Publications of Barnard College:

Announcement of Barnard College: contains full information concerning admission, expenses, courses of instruction, and requirements for the degree of Bachelor of Arts.

Report of the Dean: issued yearly.

These publications are distributed without charge upon application to the Secretary of Barnard College.

Publications of Teachers College:

Announcements of Teachers College: (Faculties of Education and Practical Arts) issued annually; contains full information concerning the organization, equipment, and work of this institution, the Department of Education of Columbia University.

Report of the Dean: issued each November.

Special Circulars describing the work of the departments of:

Educational Psychology, History and Philosophy of Education, Educational Administration, Secondary Education, Elementary Education, Physical Education, Kindergarten, Domestic Art, Domestic Science, Fine Arts, Indus-

trial Arts, Music, and of other departments.

These may be obtained without charge upon application to the Secretary of Teachers College.

Circular of the Horace Mann School: a school fully equipped with kindergarten, elementary, and secondary classes, maintained by Teachers College as a school of observation.

This circular may be obtained

without charge upon application to the Superintendent of the Horace Mann School.

Publications of the College of Pharmacy:

Announcement of the College of Pharmacy: issued annually; contains full information concerning the organization, equipment, and work of this institution.

ACADEMIC CALENDAR

1913-1915

- 1913—Sept. 15—Monday, Entrance examinations and examinations for deficient and debarred students begin.
- Sept. 17—Wednesday, Registration begins.
- Sept. 23—Tuesday, Registration ceases for students previously matriculated, except in the graduate schools. Later applications received only on payment of an additional fee of \$5.
- Sept. 24—Wednesday, First half-year, 160th year, begins. Registration ceases for students not previously matriculated, except in the graduate schools. Later applications received only on payment of an additional fee of \$5. Fellows and Scholars to report to the Registrar.
- Sept. 27—Saturday, Registration ceases in the graduate schools. Later applications received only on payment of an additional fee of \$5.
- Oct. 7—Tuesday, Last day for filing essay for the degree of Master of Arts, if the degree is to be conferred in October.
- Oct. 21—Tuesday, Stated meeting of University Council.
- Nov. 4—Tuesday, Election Day, holiday.
- Nov. 26—Wednesday, University service in St. Paul's Chapel.
- Nov. 27—Thursday, to November 29, Saturday, inclusive, Thanksgiving holidays.
- Dec. 16—Tuesday, Stated meeting of University Council.
- Dec. 22—Monday, to

1914

- 1914—Jan. 3—Saturday, inclusive, Christmas holidays.
- Jan. 12—Monday, Mid-year entrance examinations begin.
- Jan. 15—Thursday, Last day for filing applications for the degree of Master of Arts, if the degree is to be conferred in February.
- Jan. 21—Wednesday, Mid-year examinations begin.
- Feb. 3—Tuesday, First half-year ends. Last day for presenting

- essay for the degree of Master of Arts, if the degree is to be conferred in February.
- Feb. 4—Wednesday, Second half-year begins. University service in St. Paul's Chapel. Registration ceases for students entering second half-year. Later applications received only on payment of an additional fee of \$5. Fellows and Scholars to report to the Registrar.
- Feb. 12—Thursday, Alumni Day.
- Feb. 17—Tuesday, Stated meeting of University Council.
- Feb. 23—Monday, Washington's Birthday, holiday.
- Mar. 2—Monday, Last day for filing applications for University Fellowships.
- Apr. 1—Wednesday, Last day for filing applications for examination for the degree of Doctor of Philosophy, if the degree is to be conferred in June. Last day for filing applications for University Scholarships.
- Apr. 9—Thursday, to April 13, Monday, inclusive, Easter holidays.
- Apr. 15—Wednesday, Last day for filing applications for the degree of Master of Arts, if the degree is to be conferred in June. Last day for filing applications for the degree under the Faculty of Fine Arts.
- Apr. 21—Tuesday, Stated meeting of University Council.
- May 18—Monday, Final examinations begin.
- May 20—Wednesday, Last day for filing essay for the degree of Master of Arts, if the degree is to be conferred in June.
- May 30—Saturday, Memorial Day, holiday.
- May 31—Sunday, Baccalaureate service.
- June 1—Monday, Class Day.
- June 3—Wednesday, Commencement Day.
- June 10—Wednesday, Second half-year ends.
- June 15—Monday, Entrance examinations begin.
- July 6—Monday, Fifteenth Summer Session opens.
- Aug. 1—Saturday, Last day for filing applications for the degree of Master of Arts, if the degree is to be conferred in October.
- Aug. 14—Friday, Fifteenth Summer Session closes.
- Sept. 14—Monday, Entrance examinations and examinations for deficient and debarred students begin.
- Sept. 16—Wednesday, Registration begins.
- Sept. 22—Tuesday, Registration ceases for students previously matriculated, except in the graduate schools. Later

applications received only on payment of an additional fee of \$5.

- Sept. 23—Wednesday, First half-year, 161st year, begins. Registration ceases for students not previously matriculated, except in the graduate schools. Later applications received only on payment of an additional fee of \$5. Fellows and Scholars to report to the Registrar.
- Sept. 26—Saturday, Registration ceases in the graduate schools. Later applications received only on payment of an additional fee of \$5.
- Oct. 6—Tuesday, Last day for filing essay for the degree of Master of Arts, if the degree is to be conferred in October.
- Oct. 20—Tuesday, Stated meeting of University Council.
- Nov. 3—Tuesday, Election Day, holiday.
- Nov. 25—Wednesday, University service in St. Paul's Chapel.
- Nov. 26—Thursday, to November 28, Saturday, inclusive, Thanksgiving holidays.
- Dec. 15—Tuesday, Stated meeting of University Council.
- Dec. 21—Monday, to

1915

- 1915—Jan. 2—Saturday, inclusive, Christmas holidays.
- Jan. 11—Monday, Mid-year entrance examinations begin.
- Jan. 15—Friday, Last day for filing applications for the degree of Master of Arts, if the degree is to be conferred in February.
- Jan. 20—Wednesday, Mid-year examinations begin.
- Feb. 2—Tuesday, First half-year ends. Last day for filing essay for the degree of Master of Arts, if the degree is to be conferred in February.
- Feb. 3—Wednesday, Second half-year begins. University service in St. Paul's Chapel. Registration ceases for students entering second half-year. Later applications received only on payment of an additional fee of \$5. Fellows and Scholars to report to the Registrar.
- Feb. 12—Friday, Alumni Day.
- Feb. 16—Tuesday, Stated meeting of University Council.
- Feb. 22—Monday, Washington's Birthday, holiday.
- Mar. 1—Monday, Last day for filing applications for University Fellowships.

- Apr. 1—Thursday, Last day for filing applications for examination for the degree of Doctor of Philosophy, if the degree is to be conferred in June. Last day for filing applications for University Scholarships.
- Apr. 1—Thursday, to April 5, Monday, inclusive, Easter holidays.
- Apr. 15—Thursday, Last day for filing applications for the degree of Master of Arts, if the degree is to be conferred in June.
- Apr. 20—Tuesday, Stated meeting of University Council.
- May 17—Monday, Final examinations begin.
- May 19—Wednesday, Last day for filing essay for the degree of Master of Arts, if the degree is to be conferred in June.
- May 30—Sunday, Baccalaureate service.
- May 31—Monday, Class Day, Memorial Day, holiday.
- June 2—Wednesday, Commencement Day.
- June 9—Wednesday, Second half-year ends.
- June 14—Monday, Entrance examinations begin.
- July 6—Tuesday, Sixteenth Summer Session opens.
- Aug. 2—Monday, Last day for filing applications for the degree of Master of Arts, if the degree is to be conferred in October.
- Aug. 17—Tuesday, Sixteenth Summer Session closes.
- Sept. 13—Monday, Entrance examinations and examinations for deficient and debarred students begin.
- Sept. 15—Wednesday, Registration begins.
- Sept. 21—Tuesday, Registration ceases for students previously matriculated, except in the graduate schools. Later applications received only on payment of an additional fee of \$5.
- Sept. 22—Wednesday, First half-year, 162nd year, begins. Registration ceases for students not previously matriculated, except in the graduate schools. Later applications received only on payment of an additional fee of \$5. Fellows and Scholars to report to the Registrar.

The last day of the second half-year falls on the second Wednesday in June, and the academic year opens 37 weeks before that date. The second half-year opens on Wednesday, 19 weeks from the opening of the first half-year.

DIRECTORY OF OFFICERS

A.	= Avery.	Hv.	= Havemeyer.	S. H.	= Sloane Hospital.
B.	= Barnard College.	J.	= Journalism.	Sp. S.	= Speyer School.
East.	= East Hall.	K.	= Kent.	T.	= Teachers College.
E. H.	= Earl Hall.	L.	= Library.	U.	= University.
E.	= Engineering.	M.	= School of Mines.	V. C.	= Vanderbilt Clinic.
F.	= Fayerweather.	P. & S.	= College of Physicians and Surgeons.		
Gym.	= Gymnasium.	P.	= Philosophy.		
H. A.	= Household Arts.	Phar.	= College of Pharmacy.		
Hm.	= Hamilton.	S.	= Schermerhorn.		
H. M. S.	= Horace Mann School.				

Furnald, Hartley, Livingston, Whittier, Brooks = Residence Halls.

NOTE: Figures in parentheses after names indicate pages on which full names and academic titles of officers appear.

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Abbott, A. Asst. Prof. (22)	M. F. 11-12	110 T.	537 W. 121
Abbott, N. Prof. (16)	M. W. S. 11-12	K.	515 W. 124
	Absent on leave second half-year		
Adams, P. H. Clin. Asst. (33)		V. C.	106 E. 70
Adams, Sherred W. Tr. (36)		H. M. S.	
Adler, F. Prof. (12)			152 W. 77
Agger, E. E. Asst. Prof. (19)	M. W. 10	708 Hm.	Tenaflly, N. J.
Aldrich, J. Clin. Asst. (33)		V. C.	164 W. 81
Alexander, I. H. Clin. Asst. (33)		V. C.	254 W. 127
Alexander, J. W. Pres. Nat'l Acad. of Design (17)			116 E. 65
Alexander, L. H. Instr. (28)	M. W. 10-11	111 B.	660 Riverside Dr.
Altenburg, E. Asst. (30)	M. 10-11; W. 4-5	S.	98 Sayre, Elizabeth, N. J.
Anderson, Mary P. Tr. (36)		H. M. S.	
Andrews, B. R. Asst. Prof. (22)	M. W. 3-4; F. 1	106 H. A.	421 W. 121
Andrix, Iza E. Tr. (37)		Sp. S.	94 Lawrence
Anthony, Kate S. Tr. (36)		H. M. S.	202 W. 78
Arendt, M. Asst. Prof. (17)	M. W. 9-10; Tu. 10-11; F. 11-12	503 E.	The Ansonia, B'way & 73
Armstrong, E. H. Asst. (31)			
Arnold, H. N. Lect. (29)	Tu. Th. 4-4:30	406 K.	1 E. 51
Army, H. V. Prof. (20)		Phar.	Montclair, N. J.
Asserson, M. Alice, Asst. Physician (34)		T.	40 W. 96
Atkinson, Louise S. Instr. (34)		T.	196 Berkeley Pl., Bklyn.
Atwell, Mrs. Julia H. Instr. (34)		T.	Whittier
Atwood, C. E. Clin. Asst. (32)		V. C.	14 E. 60
Auchincloss, H. Instr. (25)		P. & S.	981 Madison ave.
Ayres, D. R. Clin. Asst. (32)		V. C.	
Ayres, H. M. Asst. Prof. (18)	M. W. 11-12	606 P.	514 W. 122
Bach, M. G. Instr. (34)		T.	419 W. 119
Bach, R. F. Curator (29)	M. W. F. 9-12	406 A.	70 Morningside Dr.
Bacon, G. Prof. (13)		P. & S.	47 W. 54
Bacon, Georgia F. Tr. (36)		H. M. S.	537 W. 121

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Bagster-Collins, E. W. Assoc. Prof. (13)	Tu. 11-12	231 T.	Montrose, N. Y.
Baker, C. M. Tr. (36)		H. M. S.	
Baker, F. T. Prof. (11)	M. W. 9:30-10	323 T.	Park Hill, Yonkers, N. Y.
Baker, Helen B. Tr. (36)		H. M. S.	
Baker, J. C. Lab. Asst. (31)		110 Hv.	521 Manhattan ave.
Baker, S. Josephine, Lect. (34)		T.	
Balderston, L. Ray, Instr. (34)		T.	509 W. 121
Baldt, Laura I. Instr. (34)		T.	106 Morningside Dr.
Baldwin, C. S. Prof. (20)	Tu. W. Th. F. 2:10-3	B.	15 Claremont ave.
Baldwin, Elizabeth G. Lib'n T. C. (6)	Daily 11-12	313 T. T.	435 W. 123
Ballard, Anna W. Instr. (34)		Phar.	115 W. 68
Ballard, C. W. Instr.		V. C.	43 W. 54
Bancroft, F. W. Clin. Asst. (33)		M.	36 Gramercy Pk.
Banks, H. P. Asst. (30)		P. & S.	119 W. 80
Barrett, F. J. Asst. (30)		T.	
Barrows, Anna, Instr. (34)		616 Hv.	Furnald
Barry, F. Instr. (28)	M.-F. 4:30-5:30	V. C.	57 W. 45
Bartholow, P. Clin. Asst. (33)		P. & S.	44 E. 63
Bartlett, F. H. Instr. (25)		V. C.	
Barver, R. Clin. Asst. (33)		P. & S.	57 W. 58
Bastedo, W. A. Assoc. (23)		H. M. S.	
Batchelder, Evelyn, Tr. (36)		H. M. S.	415 W. 118
Batchelder, Mildred I. Tr. (36)		507 Hv.	601 W. 168
Beans, H. T. Asst. Prof. (19)	W. Th. 10	606 E.	390 Wadsworth ave.
Beans, J. E. Instr. (27)	Tu. W. 1-2	715 Hm.	400 W. 118
Beard, C. A. Assoc. Prof. (16)	Tu. 11-12	V. C.	548 W. 124
Beck, B. J. Clin. Asst. (33)		V. C.	500 W. 122
Beck, S. Clin. Asst. (33)		T.	620 W. 116
Beegle, Mary P. Instr. (34)		V. C.	8 Highland ave., Yonkers, N. Y.
Belcher, B. H. Clin. Asst. (33)			
Bement, A. Asst. Prof. (20)		426 T.	15 W. 67
Bender, A. Instr. (27)	M. F. 11-12	505 Hv.	Livingston
Bender, J. A. Lect. (34)		T.	606 W. 122
Bennett, Ida M. Tr. (37)		Sp. S.	94 Lawrence
Benns, C. P. Supt. Bldgs. & Grounds T. C. (6)	Daily 9-5	100 T.	195 Claremont ave.
Bensel, W. Assoc. (24)		P. & S.	355 W. 84
Bentley, Bertha M. Tr.		Sp. S.	94 Lawrence
Berckhemer, F. Curator (30)	M.-F. 10-12	104 S.	520 W. 121
Berg, A. A. Assoc. (24)		P. & S.	923 Madison ave.
Berg, H. W. Assoc. (24)		P. & S.	923 Madison ave.
Berkey, C. P. Assoc. Prof. (18)	Tu. Th. S. 11-12	303 S.	Palisade, N. J.
Betz, G. A. Instr. (29)	Tu. 10; F. 1:30	114 B.	Furnald
Bewer, J. A. Lect. (34)		T.	606 W. 122
Bigelow, M. A. Prof. (13)	M. Tu. Th. 11	122 T.	Crugers, N. Y.
Bigelow, C. O. Treas. Coll. Phar. (3)			133 W. 78
Bigongiari, D. Instr. (26)	M. W. 11-12	504 P.	
Birnbaum, S. Lab. Asst. (31)	Tu. Th. 1-4	615 Hv.	1719 Wash'n ave.
Bisch, L. E. Lect. (34)		T.	768 West End ave.
Blackwell, H. B. Instr. (25)		P. & S.	148 W. 58
Blancard, W. Clin. Asst. (33)		V. C.	55 E. 76
Blanchard, A. H. Prof. (20)		410 E.	411 W. 114

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Blanchard, J. Lect. (30)	Daily 9-10; 2-3	512 F.	Livingston
Bliss, Grace V. Sec. Dept. Fine Arts T. C. (34)		T.	404 W. 115
Bloom, I. I. Gym. Asst.		Gym.	478 W. 158
Blumgarten, A. S. Clin. Asst. (33)		V. C.	1114 Madison ave.
Boas, Belle, Tr. (36)		H. M. S.	634 W. 135
Boas, F. Prof. (11)	M. W. 10-11	706 F.	Grantwood, N. J.
Boehme, G. F. Clin. Asst. (32)		V. C.	
Bogarte, M. B. Tr. (36)		H. M. S.	512 W. 123
Bogert, M. T. Prof. (12)	Tu. Th. F. 2-4	408 Hv.	422 W. 154
Bonser, F. G. Assoc. Prof. (18)	Daily 2-3	235 T.	552 Riverside Dr.
Boorstein, S. Clin. Asst. (32)		V. C.	
Botsford, G. W. Prof. (14)	M.-F. 3:30-4	603 K.	28 Urban, Mt. Vernon, N. Y.
Bourquin, L. Lect. (30)	M. Tu. W. 4-7	500a P.	509 W. 121
Bovaird, D. Jr. Asst. Prof. (17)		P. & S.	137 E. 60
Boyd, Virginia T. Clerk Barnard Coll.		B.	618 W. 114
Boyd, W. B. Asst. (30)		P. & S.	25 Claremont ave.
Bradish, Ethelwyn C. Instr. (36)		T.	106 Morningside Dr.
Brainin, C. S. Asst. (30)		409 F.	Furnald
Brandt, Lilian, Asst. (30)	Tu. Th. 5:10	607 K.	26 Orange, Bklyn.
Brant, Laura C. Asst. (30)			
Braun, W. A. Assoc. Prof. (17)	Tu. 11; F. 10 Absent on leave second half-year	113 B. T.	Furnald 21 Park ave., Mt. Vernon, N. Y.
Breckenridge, W. E. Lect. (36)		P. & S.	16 E. 64
Brewer, G. E. Prof. (13)			
Brewster, W. T. Prof. & Provost B. C. (5, 12)	Tu. Th. 11-12	109 B.	Hartsdale, N. Y.
Briggs, Elizabeth, Tr. (34)		H. M. S.	111 1/2 W. 84
Brill, A. A. Clin. Asst. (33)		V. C.	55 Central Pk. W.
Brill, N. E. Prof. (23)		P. & S.	48 W. 76
Britton, N. L. Dir. N. Y. Bot. Garden (15)			Bronx Park
Broadhurst, Jean, Instr. (36)		T.	Whittier
Brooks, F. E. Tr. (34)		H. M. S.	
Brooks, Mrs. Marie K. Tr. (34)		H. M. S.	
Brown, Anna W. Asst. (36)		T.	430 W. 118
Brown, A. J. Instr. (27)		P. & S.	156 E. 64
Brown, C. K. Sec. Earl Hall (6)			Hartley
Brown, Rev. F. Pres. Union Theol. Sem. (16)			
Brown, Grace L. Instr. (34)		U. T. S.	80 Claremont ave.
Brown, H. C. Instr. (26)	Tu. 11-12 Th. 11-12	T.	419 W. 119
Brown, J. C. Tr. (34)		335 B.	854 W. 181
Bruce, E. L. Asst. (30)	M.-F. 11-12	705 P.	527 W. 124
Bryant, Annie B. Asst. (34)		H. M. S.	349 W. 120
Buckner, Mrs. Grace H. Instr. (34)		T.	519 W. 121
Budington, Ethel H. Lib. Sup. (6)		T.	509 W. 121
Bullock, F. D. Assoc. (25)		205 L.	457 W. 123
Burdick, F. M. Prof. (9)	Tu. Th. 10-11	P. & S.	
Burgess, J. W. Emer. Prof. (6)		406 K.	2880 Broadway
Burke, Agnes, Asst. (34)		T.	Newport, R. I. 514 W. 122

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Burnside, C. H. Asst. Prof. (17)	M.-F. 10; Tu. Th. 4	603 F.	Morsemere, N. J.
Burr, W. H. Prof. (10)		401 E.	New Canaan, Ct.
Burton-Opitz, R. Assoc. Prof. (14)		P. & S.	Palisade, N. J.
Bush, A. M. Gym. Asst.		Gym.	1615 Pitkin, Bklyn.
Bush, W. T. Assoc. Prof. (20)	Absent on leave		
	1913-14		1 W. 64
Buswell, A. M. Instr. (28)	Daily 11-12	608 Hv.	412 W. 115
Butler, N. M. Pres. (1, 2, 3, 4, 5, 9)	M. Tu. Th. F. 10:30-12	213 L. T. V. C.	60 Morningside Dr. 15 Claremont ave.
Cady, C. B. Lect. (34)		H. M. S.	Livingston
Cain, E. A. Clin. Asst. (32)			
Caldwell, H. H. Tr. (36)			
Calkins, G. N. Prof. (13)	M. 11-12; W. 10-11; Th. 2:30-3:30	604 S. 604 Hv.	Hartsdale, N. Y. Furnald
Calvert, R. P. Instr. (28)	Daily 9-11	P. & S. Sp. S.	128 E. 60
Camac, C. N. B. Asst. Prof. (19)			
Campbell, Blanche E. Tr. (37)			
Campbell, W. Assoc. Prof. (16)	Absent on leave first half-year		
Canfield, G. F. Prof. (10)	Tu. Th. 11-12	406 K.	344 W. 72
Carlucci, G. A. Asst. (30)		P. & S.	1954 Crotona Park- way
Carney, T. J. Clin. Asst. (33)		V. C.	171 W. 95
Carpenter, C. D. Instr. (34)		T.	114 Morningside Dr.
Carpenter, W. H. Prof. and Provost (5, 9)	Daily 10-12	305 East P. & S.	417 W. 117 353 W. 57
Carr, M. L. Instr. (27)		P. & S.	66 W. 55
Carter, H. S. Assoc. (24)		412 S.	Garrison, N. Y.
Cattell, J. McK. Prof. (9)	Th. F. 2	P. & S.	123 E. 62
Cecil, R. L. Instr. (27)		501 K.	403 W. 115
Chaddock, R. E. Assoc. Prof. (20)	M. W. 11-12	P. & S.	49 W. 57
Chambers, P. F. Prof. (23)		P. & S.	51 E. 54
Chandler, C. F. Emer. Prof. (6)			7 E. 55
Chappell, W. F. Prof. (23)		P. & S.	
Clark, J. B. Prof. (10)	Absent on leave 1913-14		The Umbria, West End ave. and 82
Clark, J. E. Clin. Asst. (32)		V. C.	65 W. 45
Clarke, W. C. Asst. Prof. (21)		P. & S.	200 W. 56
Class, F. M. Instr. (26)		P. & S.	24 W. 45
Cleasby, Elizabeth, Tr. (36)		H. M. S.	405 W. 118
Cleaver, E. E. Clin. Asst. (33)		V. C.	351 W 51
Clifford, Rev. Father (30)		307 P.	Whippany, N. J.
Coblentz, V. Emer. Prof. (6)			595 Third, Bklyn.
Cocks, G. H. Instr. (27)		P. & S.	137 E. 54
Cohn, A. Prof. (10)	M. Tu. W. Th.	502 P.	2018 Fifth ave.
Colby, Gertrude K. Asst. (34)		T.	Whittier
Cole, F. N. Prof. (10)	M. 2	315 U.	
Colie, E. M. Clin. Asst. (32)		V. C.	128 W. 59
Coll, A. P. Clin. Asst. (33)		V. C.	153 Lexington ave.
Collins, H. D. Instr. (25)		P. & S.	50 W. 55
Colsey, L. C. Gym. Clerk		Gym.	Nyack, N. Y.
Compton, G. B. Alumni Sec'y		East	420 W. 119
Connell, K. A. Instr. (25)		P. & S.	63 W. 49
Cooley, Anna M. Asst. Prof. (18)	Tu. Th. 11-12	115 H. A.	202 W. 79

DIRECTORY OF OFFICERS

489

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Cooley, W. F. Instr. (26)	M. W. 9-10	614 Hm.	75 St. James Terrace, Yonkers, N. Y.
Combes, A. L. Asst. (34)		T.	Furnald
Condry, Margaret G. Tr. (36)		H. M. S.	
Constantine, J. H. Instr. (34)		T.	421 Manhattan ave.
Cook, Elizabeth C. Instr. (34)		T.	430 W. 119
Cooper, Isabel S. Asst. (34)		T.	435 W. 119
Cornell, Grace A. Asst. Prof. (20)	Tu. Th. 9-12; 2-5	431 T.	33 Alsop, Jamaica, N. Y.
Coss, J. J. Lect. (30)			
Coulter, C. B. Asst. (31)		P. & S.	417 W. 120
Cowan, J. A. Clin. Asst. (33)		V. C.	438 W. 44
Cox, G. J. Instr. (34)		T.	3099 Broadway
Cox, K. Prof. (16)			134 E. 67
Coy, Genevieve, Asst. (34)		T.	
Cragin, E. B. Prof. (11)		P. & S.	10 W. 50
Crampton, H. E. Prof. (12)	Tu. Th. 2-3	415 B.	2880 Broadway
Crandall, Ella P. Lect. (34)		T.	52 E. 34
Crandon, Laura B. Tr. (36)		H. M. S.	401 W. 118
Crawford, J. R. Instr. (28)	Absent on leave 1913-14		
Crissey, Helen, Sec. to Princ. H. M. El. Sch. (36)		H. M. S.	600 W. 114
Crocker, F. B. Prof. (10)	Absent on leave 1913-14		
Cunliffe, J. W. Prof. and Assoc. Dir. Sch. Journ. (5, 20)	M. F. 9-10; W. 11-12	201 J.	Delafield Lane, Riverdale
Curtis, C. C. Assoc. Prof. (16)	Tu. Th. 2:30-3:30	506 S.	
Curtis, H. B. Instr. (26)	M. W. F. 11:50	140 B.	401 W. 118
Curtis, Mary W. Asst. (34)		T.	457 W. 123
Cussler, E. Asst. (30)		P. & S.	103 E. 75
Dana, H. W. L. Instr. (28)	F. 10-12	606 Hm.	Livingston
Daniell, Lucetta, Soc. Dir. T. C. (6)	M. Tu. W. 2-4; Th. F. 10-12	108 T.	Whittier
Danielson, C. S. Bursar (6)	M.-F. 9:30-3:30; S. 9:30-12	East P. & S. T.	2135 Seventh ave. 47 W. 50 Carnegie Hall
Darrach, W. Assoc. (25)		H. M. S.	
Daschbach, M. Grace, Lect. (34)			
David, E. J. Tr. (36)			
Davies, M. J. Asst. to Dir. of Ext. Teaching	M.-F. 9-5; S. 9-12	711 P.	227 Willoughby ave., Bklyn.
Davis, B. Asst. Prof. (17)	Tu. Th. 11-12	408 F.	411 W. 114
Davis, F. Jr. Assoc. (23)		P. & S.	17 W. 47
Day, Louise V. Sec. to Supt. H. M. S.		H. M. S.	3 W. 92
Day, W. S. Lect. (29)		407 F.	220 Hobart ave., Summit, N. J.
Dean, B. Prof. (11)	Absent on leave first half-year	603 S.	Riverdale
de Bacourt, P. Lect. (29)	S. 10-12	508 J.	9 W. 98
DeBeukelaer, F. L. Lab. Asst. (31)	M. W. F. 11; Tu. Th. 9	409 Hv.	604 W. 114
Dederer, Pauline H. Instr. (26)	M. 10-11	413 B.	549 W. 113

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Delafield, F. Emer. Prof. (6)			5 W. 50
Demarest, I. C. Instr. (27)	Tu. 10-10:30	510 Hm.	56 Essex, Hacken- sack, N. J.
Dement, Lucia W. Tr. (36)		H. M. S.	500 W. 121
Denig, R. C. Prof. (23)		P. & S.	56 E. 58
Derby, R. Instr. (27)		P. & S.	131 E. 57
Detwiller, A. K. Clin. Asst. (32)		V. C.	10 E. 58
Devine, E. T. Prof. (15)	Tu. Th. 5	607 K.	542 W. 112
Dewey, J. Prof. (14)	M. W. 2-3	702 P.	2880 Broadway
Dickey, F. A. Registrar (5)	M.-F. 9-5; S. 9-12	201 East	Grand View, Nyack, N. Y.
Diekman, G. C. Prof. (5, 14)		Phar.	555 E. 23, Bklyn.
Diem, O. Clin. Asst. (33)		V. C.	
Dixon, Vera M. Lib'n App. Sci. Lib.			414 W. 120
Dodge, B. O. Instr. (28)	Tu. Th. 10-12	510 S.	417 W. 121
Dodge, R. E. Prof. (11)	Tu. Th. 3-4; W. F. 9-10	416 T.	Washington, Ct.
Donovan, Helen, Instr. (34)		T.	106 Morningside Dr.
Dorr, G. H. Assoc. (24)	Th. F. 8:30-9	410 K.	71 Broadway
Doty, Katharine S. Sec. Bar- nard Coll. (5)	M.-F. 10-12; 2-4; S. 10-12	B.	553 W. 141
Dow, A. W. Prof. (14)	W. 4-5	431 T.	501 W. 120
Dowd, C. N. Prof. (16)		P. & S.	127 W. 72
Downes, W. A. Asst. Prof. (22)		P. & S.	37 W. 71
Draper, G. Instr. (28)		P. & S.	162 E. 63
Draper, W. K. Prof. (15)		P. & S.	121 E. 36
Drew, Lillian C. Instr. (34)		T.	435 W. 119
Drowne, H. B. Instr. (27)			
Dunning, H. S. Clin. Asst. (32)		V. C.	
Dunning, W. A. Prof. (10)	M. W. F. 12:30	608 K.	Hotel Marie An- toinette
Dutton, S. T. Prof. (11)	M. Tu. Th. F. 11-12; 3-4	H. M. S.	Edgehill Inn, Spuy- ten Duyvil
Dwight, K. Asst. (30)		P. & S.	1045 Madison ave.
Dwyer, J. G. Instr. (27)		P. & S.	40 E. 41
Eastlack, H. E. Asst. (34)		T.	
Eddison, W. B. Asst. (31)	Tu.-F. 4-5	207 E.	Irvington, N. Y.
Eddy, W. H. Assoc. (24)		P. & S.	530 W. 123
Egan, Rose F. Asst. (34)		T.	
Egbert, J. C. Prof. and Dir. Summer Session and Ext. Teaching (5, 11)	Daily 11-12	306 P.	425 W. 146
Eisenbrey, A. B. Instr. (29)		P. & S.	St. Luke's Hosp'l
Elliott, A. H. Emer. Prof. (6)			52 E. 41
Elliott, E. S. Instr. (28)		Gym.	Livingston
Emerson, H. Assoc. (24)		P. & S.	120 E. 62
Epstein, J. Clin. Asst. (32)		V. C.	225 Henry
Erb, F. C. Lib. Sup.		L.	520 W. 123
Erb, F. W. Lib. Sup.		L.	520 W. 123
Erdwurm, F. Instr. (28)		P. & S.	128 E. 34
Erskine, J. Assoc. Prof. (17)	M. W. 9; Tu. Th. 10	612 Hm.	609 W. 115

DIRECTORY OF OFFICERS

491

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Evans, E. M. Prof. (17)		P. & S.	56 E. 55
Eyster, J. B. Tr. (36)		H. M. S.	417 W. 121
Fackenthal, F. D. Sec. of the University (5)	Daily 9-5	213 L.	930 St. Marks ave., Bklyn.; 407 W. 117
Fair, Ethel, Tr. (36)		H. M. S.	541 W. 123
Fales, H. A. Instr. (29)			308 Schermerhorn, Bklyn.
Fales, Jane, Asst. Prof. (18)	M. 2-4; Th. 10-12	308 H. A.	622 W. 113
Farnsworth, C. H. Assoc. Prof. (12)	M. 2; Th. 10	703 T.	Edgewater, N. J.
Farrand, L. Prof. (12)	M. W. F. 3	704 J.	68 Dwight Pl., Englewood, N. J.
Farrington, F. E. Assoc. Prof. (19)	Absent on leave first half-year	T.	
Farrington, Kathryn, Sec. Bureau of Publications T. C. (34)		T.	2150-80, Bklyn.
Farwell, H. W. Instr. (26)	Tu. 3-5	401 F.	241 Hillside ave., Leonia, N. J.
Fasano, S. Lab. Asst. (32)		Phar.	115 W. 68
Field, Ada M. Asst. (34)		T.	1105 Amsterdam ave.
Field, C. W. Asst. (31)		P. & S.	Bellevue Hosp'l
Finch, J. K. Instr. (26)	Tu. Th. F. 11-12	409 E.	126 Claremont ave.
Finch, Ruth S. Asst. (30)		B.	400 W. 118
Fischer, C. A. Instr. (28)	Daily 10:50-11:10	215 Hm.	Furnald
Fischer, H. Instr. (25)		P. & S.	111 E. 81
Fish, G. D. Asst. (31)	M. F. 10-11	406 E.	41 Claremont ave.
Fisher, H. L. Instr. (28)	M.-F. 1-4	402 Hv.	3 Louisa Pl., Weehawken, N. J.
Fisk, J. C. Clin. Asst. (32)		V. C.	2030 Broadway
Fiske, T. S. Prof. (10)	M. W. 3:30	508 F.	804 W. 180
Fite, W. B. Prof. (18)	Tu. Th. 10-11	209 Hm.	411 W. 114
Fleming, H. C. Clin. Asst. (32)		V. C.	
Fletcher, J. B. Prof. (14)	M. W. 2-3	612 P.	112 E. 22
Fontaine, C. Asst. Prof. (18)	M. W. F. 10	308 Hm.	541 W. 124
Ford, G. B. Lect. (29)		A.	404 W. 115
Fordyce, J. A. Prof. (22)		P. & S.	8 W. 77
Fortier, E. J. Instr. (27)	M. F. 3	305 Hm.	557 W. 124
Fossler, Anna K. Lib. Sup.		L.	135 E. 33
Foster, B. B. Gym. Asst.		Gym.	419 W. 115
Fowler, S. W. Clin. Asst. (33)		V. C.	326 W. 57
Fox, D. R. Instr. (28)	M. 2-3; Tu. 4-6	714 Hm.	633 W. 115
Frame, Elsa L. Instr.		T.	Whittier
Francis, Charlotte A. Instr.		T.	Whittier
Fraser, A. C. Asst. (31)	M. 11-12; F. 10-12	504 S.	322 E. 201
Freas, T. B. Asst. Prof. and Curator (20)	M.-F. 9-12; 2-5	Hv.	472 Grand ave., Leonia, N. J.
Freeman, A. C. Instr. (29)		P. & S.	115 E. 71
French, D. C. Prof. (16)			125 W. 11
French, Lucile G. Instr. (34)		T.	405 W. 118
Freudenfall, B. Clin. Asst. (33)		V. C.	329 E. 51
Frieder, W. Clin. Asst. (32)		V. C.	80 St. Nicholas ave.
Friedman, G. A. Clin. Asst. (33)		V. C.	123 E. 95

DIRECTORY OF OFFICERS

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Friedson, M. Clin. Asst. (32)		V. C.	
Frissell, L. F. Asst. Prof. (21)		P. & S.	113 E. 56
Frothingham, R. Instr. (25)		P. & S.	616 Madison ave.
Frye, D. W. Clin. Asst. (33)		V. C.	
Fuhrman, H. C. Clin. Asst. (33)		V. C.	1247 Ocean ave. Bklyn.
Fullerton, G. S. Prof. (14)	Absent on leave 1913-14		
Gallaudet, B. B. Asst. Prof. (14)		P. & S.	110 E. 16
Gardner, H. F. Instr. (28)	Daily 9-10	106 S.	Hartley
Garretson, W. V. P. Clin. Asst. (32)		V. C.	112 W. 85
Garrison, Charlotte A. Instr. (34)		T.	439 W. 123
Garrison, Myrtle, Tr. (36)		H. M. S.	
Gates, Gertrude, Asst. (34)		T.	Whittier
George, Theodora, Registrar Teachers Coll. (5)	M.-F. 9-4:30; S. 9-12	104 T.	528 W. 123
Gerig, J. L. Assoc. Prof. (18)	Tu. Th. 10-11	506 P.	430 W. 118
Gerster, A. G. Prof. (23)		P. & S.	34 E. 75
Geyelin, H. R. Instr. (29)		P. & S.	680 Madison ave.
Gibbs, Winifred S. Asst. (34)		T.	70 Irving Pl.
Gibney, V. P. Prof. (13)		P. & S.	16 Park ave.
Giddings, F. H. Prof. (10)	W. 2:30; F. 4	504 K.	303 W. 104
Gies, W. J. Prof. (12)		P. & S.	611 W. 113
Gifford, R. W. Assoc. (25)	F. S. 10:30-11	607 J.	432 Temple, New Haven, Ct.
Gildersleeve, Virginia C. Prof. and Dean of Barnard Coll. (4, M. Th. 10:30-11:30; 5, 18)	2:30-3:30; W. F. 11-12	B. H. M. S. V. C.	404 Riverside Dr.
Gillmore, Mary B. Tr. (36)			
Glasgow, B. Clin. Asst. (32)			
Goetze, F. A. Dean Fac. Appl. Sci. and Cons. Engineer (4, 5, 6, 15)	M. F. 4-5; W. 12	405 E.	601 W. 110
Gohdes, W. H. Tr. (36)		H. M. S.	
Goldenweiser, A. Lect. (29)			
Goldfarb, S. J. Clin. Asst. (32)		V. C.	57 W. 111
Good, F. F. Instr. (34)		T.	419 W. 115
Goodale, Grace H. Lect. (29)			
Goodnow, F. J. Prof. (9)	Absent on leave 1913-14		
Goodrich, Anne, Asst. Prof. (22)		T.	
Goodrich, H. B. Asst. (30)		602 S.	Hartley
Goodridge, F. G. Instr. (29)		P. & S.	122 E. 78
Goodsell, Willystine, Asst. Prof. (20)	Tu. Th. 11	321 T.	405 W. 118
Goodwin, G. M. Instr. (29)		P. & S.	125 E. 57
Gordon, D. Instr. (27)		P. & S.	61 W. 48
Gottheil, R. J. H. Prof. (9)	M. W. 2	405 P.	417 Riverside Dr.
Goucher, F. S. Asst. (31)			
Gover, Helen B. Tr. (37)		Sp. S.	94 Lawrence
Grabau, A. W. Prof. (12)			
Graham, W. S. Clin. Asst. (33)		V. C.	
Grant, E. J. Chief Clerk, Regis- trar's Office	M. F. 9-5; S. 9-12	201 E.	34 Post ave.
Graves, G. H. Instr. (27)	M.-F. 1-4	212 Hm.	Livingston
Gray, R. P. Instr. (34)		T.	435 W. 119

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Green, N. W. Instr. (28)		P. & S.	152 W. 57
Greenwood, Grace, Asst. Soc. Dir. Whittier			Whittier
Gregory, Louise H. Instr. (26)	Tu. 1-2	403 B.	90 Morningside Dr.
Gregory, M. S. Assoc. (24)		P. & S.	The Wyoming, 7th ave. & 55
Gregory, W. K. Assoc. (24)		Am. Mus. Nat. Hist.	Sherman Sq. Hotel
Groeschel, L. B. Clin. Asst. (33)		V. C.	540 W. 160
Grout, G. H. Instr. (28)		P. & S.	8 E. 54
Grove, C. C. Asst. Prof. (18)	Tu. Th. 9:30	204 Hm.	3129 Broadway
Guernsey, R. Instr. (26)	M. 11-11:30	515 Hm.	527 W. 124
Gunn, Mrs. Lilian M. Instr. (34)		T.	407 W. 123
Gunther, Emma H. Instr. (34)		T.	509 W. 121
Guthrie, W. D. Prof. (17)			28 Park ave.
Haberman, J. V. Instr. (26)		P. & S.	60 W. 85
Haig, R. M. Instr. (28)	Tu. Th. 11-12	506 J.	374 Wadsworth ave.
Hale, H. E. Jr. Instr. (26)		P. & S.	770 West End ave.
Hall, E. J. Asst. Prof. (19)	Daily 11-12	602 M.	78 Park ave., Pas- saic, N. J.
Hall, Leland, Lect. (30)	Tu. 1:15-2; Th. 9- 10	J.	528 W. 114
Hall, W. H. Prof. (22)	M.-F. 11-12	Chapel	49 Claremont ave.
Haller, W. Instr. (27)	W. Th. 1:10-2	136 B.	603 W. 139
Hamilton, B. P. Asst. (31)	M.-Th. S. 9-5	206 E.	36 Park ave., Ja- maica, N. Y.
Hamilton, B. W. Asst. (31)		P. & S.	125 W. 76
Hamlin, A. D. F. Prof. (9)	M. W. F. 10-11; Tu. Th. 2-3	503 A.	105 Morningside ave. E.
Hardenberg, D. S. Clin. Asst. (33)		V. C.	
Harper, R. A. Prof. (20)	Tu. Th. 3	503 S.	2936 Bainbridge ave.
Harriman, C. A. Asst. Prof. (19)		504 A.	417 W. 114
Harrington, T. H. Asst. Prof. (21)	Tu. Th. 11-11:30	604 E.	Scarsdale, N. Y.
Harris, Gertrude T. Tr. (36)		H. M. S.	510 W. 123
Harris, L. I. Clin. Asst. (33)		V. C.	70 Lenox ave.
Hart, Fannie, Lab. Asst.		Phar.	115 W. 68
Hart, T. S. Asst. Prof. (21)		P. & S.	130 W. 59
Haskell, Mrs. Juliana S. Instr. (26)	F. 10-11	113 B.	624 W. 139
Havens, Gertrude, Asst.		T.	Whittier
Haviland, C. F. Clin. Asst. (33)		V. C.	State Hosp'l, Kings Park, L. I.
Hawkes, H. E. Prof. (18)	Daily 9-10	201 Hm.	549 Riverside Dr.
Hayden, J. R. Prof. (13)		P. & S.	121 W. 55
Hayes, C. H. Asst. Prof. (18)	W. 2-4; F. 2	710 Hm.	509 W. 121
Haynes, R. S. Instr. (27)		P. & S.	375 West End ave.
Hayt, E. K. Asst. Registrar and Asst. Bursar (5)	M.-F. 10-5; S. 10-1	P. & S.	104 W. 128
Hazen, T. E. Asst. Prof. (17)	F. 9	320 B.	Livingston
Hehre, F. W. Instr. (26)	Tu.-F. 11-12	206 E.	373 W. 116
Henderson, A. C. Clin. Asst. (33)		V. C.	77 W. 85
Hensel, O. Instr. (26)		P. & S.	106 E. 81
Herbert, E. W. Gym. Asst.		Gym.	265 Henry
Herrick, A. L. Instr. (27)	M. Tu. 4-5	E.	
Herrick, W. W. Assoc. (25)		P. & S.	49 E. 53

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Herrman, C. Instr. (27)		P. & S.	250 W. 88
Hervey, W. A. Assoc. Prof. (14)	M. W. 10; F. 2; Tu. 4; Th. 11	407 Hm. 510 P.	607 W. 138 Furnald
Heuser, F. W. J. Asst. Prof. (21)	M. 4-4:30; Th. 1-2	404 Hm.	
Hicks, F. C. Asst. Lib'n (6)	M.-S. 9-10; M.-S. 10-12	202 L. K.	520 W. 122 Livingston
Hill, A. S. Asst. (31)	Daily 9-5	206 E.	620 W. 116
Hill, Jessica M. Asst. (34)		T.	620 W. 116
Hill, Patty S. Asst. Prof. (19)	M. W. 3; S. 10	112 T.	433 W. 124
Hill, R. R. Lect. (30)	Tu. 3-4	612 K.	
Hillegas, M. B. Asst. Prof. (20)	M. 9-11; W. 10; F. 2; S. 11	T.	531 W. 124
Hinds, E. Annette, Tr. (36)		H. M. S.	70 Morningside Dr.
Hinsdale, R. S. Clin. Asst. (33)		V. C.	567 W. 113
Hirst, Gertrude M. Asst. Prof. (21)	Tu. 11	212 B.	Brooks
Hirth, F. Prof. (12)	Th. 11	401 L.	401 W. 118
Holden, W. A. Instr. (25)		P. S.	8 E. 54 Hartley
Holliday, K. J. Lab. Asst. (31)			510 W. 124
Hollingworth, H. L. Instr. (26)	Tu. Th. 3-4	420 B.	40 W. 71
Hollis, A. W. Prof. (23)		P. & S.	28 Hudson ave., Edgewater, N. J.
Holm, G. T. Instr. (34)		T.	539 W. 112
Holmes, C. H. Clin. Asst. (32)		V. C.	40 Central Pk. S.
Holt, G. C. Lect. (29)		K.	14 W. 55
Holt, L. E. Prof. (12)		P. & S.	131 E. 67
Hoobler, B. R. Asst. (31)		P. & S.	175 E. 71
Hooker, R. S. Instr. (28)		P. & S.	350 Wash'n ave., Bklyn.
Hopkins, J. G. Assoc. (25)		P. & S.	94 Lawrence
Horn, E. Subst. Prin. Sp. S. (37)		Sp. S.	1122 Hudson, Ho- boken, N. J.
Horsford, F. C. Clin. Asst. (33)		V. C.	502 W. 113
Hostmann, J. Instr.		Phar.	59 W. 48
Hotchkiss, Caroline W. Tr. (36)		H. M. S.	602 W. 137
Hotchkiss, L. W. Prof. (16)		P. & S.	611 W. 111 Bedford Hills, N. Y.
Houghton, Helen W. Sec. H. M. High Sch. (36)		H. M. S.	421 W. 121 31 Morton
Howard, Clare M. Instr. (28)	Tu. Th. 11-12	137 B.	628 W. 114
Howe, H. M. Emer. Prof. (6)			209 E. 17
Howe, P. E. Asst. Prof. (21)		P. & S.	Livingston
Howson, R. Lib'n Sch. Pol. Sci.			630 W. 141
Hubbard, Grace A. Assoc. Prof. (16)	M. W. 3-3:30	336 B.	312 W. 109
Huber, F. Prof. (23)		P. & S.	54 W. 50
Humphrey, E. F. Instr. (27)	Tu. Th. 10-11	704 Hm.	20 W. 50
Humphreys, F. B. Instr. (26)		P. & S.	Hartsdale, N. Y.
Humphreys, G. H. Clin. Asst. (33)		V. C.	217 E. 69
Hunt, E. L. Instr. (25)		P. & S.	287 Carroll, Bklyn.
Hunt, J. R. Assoc. Prof. (19)		P. & S.	
Huntington, G. S. Prof. (9)		P. & S.	
Hurwitz, S. T. H. Lect. (30)	Tu. 1-2	404 P.	
Hutchinson, Emilie J. Instr. (28)	Tu. Th. 11-11:30	308 B.	
Hutchinson, Mary E. Princ. Tr. Sch. Sloane Hosp'l		S. H.	447 W. 59
Huttmann, Maude A. Instr. (26)	Tu. 2-3; W. 3:30; Th. 11-12	337 B.	134 W. 75
Hutton, A. L. Asst. (30)		P. & S.	257 W. 86

DIRECTORY OF OFFICERS

495

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Hutton, F. R. Emer. Prof. (6)			257 W. 86
Imbert, L. Instr. (27)	Tu. Th. 3	508 Hm.	350 W. 120
Jackson, A. V. W. Prof. (10)	M. 5	401 P.	668 Riverside Dr.
Jackson, D. D. Asst. Prof. (22)	M. W. F. 10-11	408 E.	930 President, Bklyn.
Jackson, F. W. Prof. (15)		P. & S.	555 Madison ave.
Jacobi, A. Emer. Prof. (10)			19 E. 47
Jacobus, A. M. Clin. Asst. (32)		V. C.	131 W. 70
Jacoby, H. Prof. (6)	Tu. Th. 9-10	610 F.	39 Claremont ave.
Jaeger, C. H. Instr. (25)		P. & S.	471 Park ave.
James, H. Instr. (28)		P. & S.	123 E. 62
James, W. B. Prof. (12)		P. & S.	17 W. 54
Janeway, T. C. Prof. (16)		P. & S.	131 E. 60
Janvrin, E. R. P. Clin. Asst. (33)		V. C.	515 Park ave.
Jensen, E. L. Gym. Asst.		Gym.	Hartley
Jessup, D. S. D. Instr. and Univ. Med. Visitor (25)	Daily 5-6 and by ap- pointment		601 W. 113
Jobling, J. W. Asst. Prof. (22)		P. & S.	454 Fort Washing- ton ave.
Johnson, A. B. Prof. (23)		P. & S.	116 E. 57
Johnson, D. W. Assoc. Prof. (21)	Tu. Th. 11-12	404 S.	160 Claremont ave.
Johnson, H. Prof. (15)	W. 10-12	320 T.	501 W. 120
Johnston, W. D. Lib'n (6, 17)	M. F. 9:30-12	201 L.	628 W. 114
Joliffe, N. R. Lect. (34)		T.	415 W. 115
Jones, A. L. Assoc. Prof. and Chmn. Com. on Undergrad. Admissions (5, 17)	Daily 10-12; Daily, exc. W. & S. 2-4	310 East H. M. S.	430 W. 116
Jones, Helen W. Tr. (36)		434 W. 120	419 W. 115
Jordan, D. Asst. Prof. (15)	M. W. 10-11	311 Hm.	Palisade, N. J.
Judd, E. K. Instr. (25)	Daily 10-12	408 M.	51 E. 66
Kammerer, F. Prof. (23)		P. & S.	
Kasner, E. Prof. (15)	M. F. 11-11:45 Absent on leave sec- ond half-year	309 B. P. & S. B.	52 E. 58 417 W. 114
Kaufmann, J. Prof. (23)		J.	618 W. 114
Keller, Eleanor, Instr. (26)		V. C.	133 E. 56
Keller, Helen R. Lib'n Sch. Journalism		403 S.	211 W. 139
Kellogg, H. K. W. Clin. Asst. (32)	W. F. 3-4	608 Hv.	Furnald
Kemp, J. F. Prof. (10)	M.-F. 9-4	504 J.	205 Puritan ave., Forest Hills, L. I.
Kendall, J. Instr. (29)	M. W. F. 10-11		3605 Broadway
Kendrick, B. B. Instr. (28)		Gym.	495 West End ave.
Kennedy, E. T. Gym. Instr.		V. C.	251 W. 92
Kent, J. M. Clin. Asst. (32)		T.	
Kenyon, Mrs. J. H. Lect. (34)		208 Hm.	415 W. 117
Koppel, F. P. Dean of Columbia College (4, 5, 7, 17)	Daily 10-12	404 M.	Livingston
Kern, E. F. Asst. Prof. (19)	M. W. F. 11-12	H. M. S.	Furnald
Kersey, P. J. Tr. (36)		V. C.	146 Central Pk. W.
Kessel, L. Clin. Asst. (32)		T.	400 W. 118
Keyes, H. B. Instr. (34)		H. M. S.	70 Morningside Dr.
Keyes, Maud V. Tr. (36)		206 Hm.	74 W. 103
Keyser, C. J. Prof. (13)	M. W. 2-3		

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Kiliani, O. G. T. Prof. (23)		P. & S.	44 W. 77
Kilpatrick, W. H. Asst. Prof. (20)	Tu. Th. 10; Daily 11-12	321 T. 107 T.	106 Morningside Dr.
Kilpatrick, Mrs. W. H. Asst. Soc. Dir. T. C. (34)	M. W. F. 2-4	108 T. P. & S.	106 Morningside Dr. 114 E. 71
Kingsley, R. Instr. (27)		113 H. A. T.	501 W. 120 419 W. 11
Kinne, Helen, Prof. (11)	M. W. 11		
Kirchwey, Clara B. Instr. (34)			
Kirchwey, G. W. Prof. (9)	M. T. W. 10-11; F. 11-12	410 K. H. M. S. Gym. T. P. & S.	800 Riverside Dr. 419 W. 114 429 W. 117 10 E. 54
Kirchwey, Mary F. Tr. (36)			
Kirkpatrick, T. B. Instr. (29)	M.-F. 2-5		
Kleinschmidt, K. Lect. (34)			
Knapp, A. H. Prof. (13)			
Knapp, C. Prof. (12)	M. 2:15-3; W. 10:30-12	331 B. E. H. P. & S. V. C. V. C. T. Gym.	1737 Sedgwick ave. 413 W. 117 Hartley 171 W. 81 31 W. 115 73 Ridge 351 W. 114 441 E. 134 308 W. 92
Knox, Rev. R. C. Chaplain (6)	M.-F. 2-3		
Knudson, A. Asst. (31)			
Kobler, E. W. Clin. Asst. (33)			
Kohn, B. Clin. Asst. (33)			
Kraft, W. J. Lect. (34)			
Kranz, S. Gym. Asst.			
Krapp, G. P. Prof. (18)	M. W. 4:10; S. 9-10	611 P. T.	
Kugler, Anna A. Asst. (34)			
Kuhn, A. K. Lect. (30)	M. W. 3:30-4:10	406 K.	
Kunkel, O. Research Asst. (31)			
Kurtz, E. L. Asst. Prof. (16)	M. W. F. 11-12	403 M. P. & S. P. & S. P. & S. P. & S.	Livingston 113 E. 61 146 E. 74 168 E. 71 Livingston
La Fetra, L. E. Assoc. (23)			
Lamb, A. R. Asst. (30)			
Lambert, A. V. S. Assoc. Prof. (21)			
Lambert, R. A. Assoc. (24)			
Lambert, S. W. Prof. and Dean of Med. Sch. (4, 5, 13)		P. & S.	130 E. 35
Langford, Grace. Instr. (26)		232 B.	70 Morningside Dr.
Lape, Esther E. Lect. (30)	Tu. Th. 10-11	137 B.	604 W. 146
Larkin, J. H. Asst. Prof. (15)		P. & S.	498 W. 130
La Roche, M. Clin. Asst. (32)		V. C.	704 Madison ave.
Latham, Azubah J. Asst. Prof. (19)	Tu. Th. 10-11	213 T.	537 W. 121
Latham, H. Instr. (34)		T.	537 W. 121
Latham, Marion E. Instr. (26)	M. 9-12	313 B.	Brooks
Lawrence, Lillie M. Tr. (36)		H. M. S.	414 W. 120
Lawrence, W. W. (16) Assoc. Prof.	M. W. 11-12 Absent on leave sec- ond half-year	605 P. Sp. S. P. & S.	618 W. 114 102 Convent ave. 125 E. 65
Lee, E. A. Tr. (37)			
Lee, F. S. Prof. (11)			
Lefferts, G. M. Emer. Prof. (6)		V. C.	Katonah, N. Y.
Leggett, N. B. Clin. Asst. (33)		H. M. S.	Saranac Lake, N. Y.
Leonard, R. J. Tr. (36)		V. C.	181 Claremont ave.
Leshure, J. Clin. Asst. (33)		Phar.	423 Convent ave.
Leslie, F. A. Instr.		327 W. 74	
Levin, I. Assoc. (24)		P. & S.	119 W. 71
Levitt, A. Lect. (30)	Tu. Th. F. 9-10	614 Hm.	Hartley
Lewis, R., Jr. Prof. (23)		P. & S.	48 W. 40
Libman, F. Prof. (23)		P. & S.	180 E. 64
Lieb, C. C. Asst. Prof. (21)		P. & S.	50 Central Pk. W.

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Liggett, Mrs. N. W. Bursar of Barnard Coll. (6)	M.-F. 10-12:45; 2-4; S. 10-12	B.	404 Riverside Dr.
Lindsay, S. M. Prof. (16)	M. W. 11-12; Tu. Th. 3-5	611 K.	501 W. 120
Livingston, A. A. Asst. Prof. (20)	Daily 11-12	505 P.	Hartley
Lobenstein, R. W. Instr. (25)		P. & S.	162 E. 71
Lockhart, A. I. Tr. (36)		H. M. S.	
Lockwood, D. P. Asst. Prof. (18)	M. W. F. 1:45	513 Hm.	404 W. 115
Lockwood, G. R. Prof. (15)		P. & S.	18 E. 52
Lodge, G. Prof. (12)	M. W. 3-4	228 T.	500 W. 121
Logan, Amy L. Asst. (34)		T.	106 Morningside Dr.
Loiseau, L. A. Asst. Prof. (13)	Tu. Th. 3-4	310 Hm.	519 W. 121
Lombard, R. H. Instr. (28)		609 Hv.	Livingston
Lomer, G. R. Instr. (28)	M. W. 10-11; S. 11-11:30	401 J.	536 W. 114
Longcope, W. T. Assoc. Prof. (20)		P. & S.	680 Madison ave.
Lord, A. W. Prof. (21)	Tu. 10 and 2	401 A.	
Lord, H. G. Prof. (11)	Daily 10-11	615 Hm.	623 W. 113
Lothrop, A. P. Assoc. (24)		P. & S.	305 Bedford Pk. Boulevard
Lovell, E. B. Prof. (11)			
Lowy, A. Lab. Asst. (31)	W. 2-4	102 Hv.	1457 Bryant ave.
Lucke, C. E. Prof. (15)	Tu.-S.	304 E.	544 W. 142
Lunt, F. S. Tr. (36)		H. M. S.	527 W. 124
Luquer, L. McL. Asst. Prof. (13)	W. 1-4	306 S.	321 W. 80
Lyle, H. H. M. Prof. (23)		P. & S.	50 E. 53
Lyon, E. C., Jr. Instr. (27)		P. & S.	447 W. 59
McBain, H. L. Visiting Lect. (22)	M. 10	713 Hm.	456 Riverside Dr.
McCastline, W. H. Health & Sanitary Officer (6)	M. Tu. F. 2-4; W. Th. S. 9:30- 11:30	E. H.	549 Riverside Dr.
McClure, M. T. Instr. (28)	W. 11-12	705 P.	Furnald
McCormick, Mary G. Instr. (34)		T.	417 W. 120
McCrea, N. G. Prof. (32)	M. Tu. 3-3:30 Absent on leave second half-year	706 P.	430 W. 119
McCreery, J. A. Instr. (29)		P. & S.	1024 Park ave.
McEntee, E. J. Clin. Asst. (32)		V. C.	196 Hancock, Bklyn.
McFarlane, C. T. Prof. & Con- troller of Teachers Coll. (6, 19)	Daily 10-12	T.	500 W. 121
McGee, J. M. Asst. (34)		T.	Furnald
McGowan, Mrs. Ellen B. Instr. (34)		T.	281 Edgecombe ave.
McGregor, J. H. Asst. Prof. (16)	M. F. 11-12	610 S.	Livingston
McKeown, Matilda J. Instr. (34)		T.	549 Riverside Dr.
McKinley, J. A., Jr. Asst. (31)		601 E.	3051 Heath ave.
McKiraahan, W. W. Instr. (28)	W. 10-11	512 Hv.	416 W. 118
McLean, S. Asst. (31)		P. & S.	776 Madison ave.
McMackin, F. J. Asst. (31)	M. W. 9-12; 1-3; Tu. Th. F. 9-12; 1-4	215 Hm.	524 W. 123
McMurry, F. M. Prof. (11)	M. W. F. S. 11-12 Absent on leave sec- ond half-year	202 T.	9 Hillside Dr. Yonkers, N. Y.
McMurtry, C. W. Instr. (27)		P. & S.	812 Fifth ave.
McVey, Florence M. Tr. (36)		H. M. S.	
McWhorter, J. E. Instr. (29)		P. & S.	205 W. 107

NAME	OFFICE HOURS	OFFICE	RESIDENCE
McWilliams, C. A. Instr. (25)		P. & S.	32 E. 53
MacAlarney, Emma L. Tr. (36)		H. M. S.	500 W. 121
MacAlarney, R. E. Assoc. Prof. M. F. 9-12 (21)		404 J.	500 W. 121
MacCallum, W. G. Prof. (17)		P. & S.	981 Madison ave.
Macgregor, J. S. Instr. (26)			
MacKee, G. M. Instr. (29)		P. & S.	58 W. 58
MacLay, J. Prof. (12)	Tu. Th. 11-12		416 W. 122
Macmahon, A. W. Instr. (29)	Tu. Th. 11; F. 1	712 Hm.	
Macrae, R. M. Clin. Asst. (11)		V. C.	64 Vanderbilt ave., Clifton, S. I.
Macumber, J. L. Clin. Asst. (32)		V. C.	291 De Kalb ave., Bklyn.
MacVannel, J. A. Prof. (14)	M. W. 3-4; S. 11-12	220 T.	411 W. 115
Macy, Cornelia P. Recorder (5)		419 L.	430 W. 119
Main, T. F. Sec. Coll. of Phar. (5)		Phar.	Montclair, N. J.
Maltby, Margaret E. Assoc. Prof. (13)	M. W. 1-2	240 B.	400 W. 118
Malécot, G. L. Asst. (34)		T.	
Manchester, Mrs. Melinda I. Instr. and Steward (34)		T.	508 W. 122
Manning, G. R. Clin. Asst. (33)		V. C.	216 W. 100
Mansfield, W. Prof. (16)		Phar.	E. Orange, N. J.
March, Maud, Instr. (34)		T.	527 W. 121
Marks, H. K. Clin. Asst. (32)		V. C.	20 W. 50
Marquette, W. G. Assoc. Prof. M. 11-12 (20)		513 S.	108 W. 111
Marshall, Florence M. Tr. (36)		H. M. S.	
Martin, H. W. Tr. (36)		H. M. S.	420 W. 130
Martin, W. Prof. (23)		P. & S.	25 W. 50
Maslon, B. Lab. Asst.		Phar.	115 W. 68
Mason, A. A. Gym. Instr.		Gym.	2545 Valentine ave.
Mason, D. G. Asst. Prof. (17)			
Absent on leave 1913-			
	14	J.	207 W. 55
Mason, F. L. Instr. (27)	M. W. 10-12	501 E.	341 E. 152
Mason, H. H. Assoc. (25)		P. & S.	134 E. 74
Mathews, F. S. Asst. Prof.		P. & S.	62 W. 50
Matthews, B. Prof. (10)	Tu. Th. 4	604 P.	681 West End ave.
Matthews, F. Assoc. (22, 24)	M. W. F. 3-5	405 J.	427 Manor ave., Woodhaven, L. I.
Mayer, R. E. Assoc. Prof. (13)		602 E.	
Megee, O. K. Clin. Asst. (33)		V. C.	294 W. 92
Mersereau, W. J. Asst. (31)		P. & S.	294 W. 92
Messer, W. S. Instr. (27)	Tu. 11:15-12; F. 11	514 Hm.	Furnald
Metzger, F. J. Asst. Prof. (19)	M. W. F. 11-12	312 Hv.	110 Morningside Dr.
Meyer, Anna F. H. Registrar Barnard Coll. (5)	M.-F. 10-12; 2-4; S. 10-12	110 B.	15 Cedar Place, Yonkers, N. Y.
Meylan, G. L. Assoc. Prof. & Med. Dir. Gym. (6, 13)	M.-F. 2-6; M. W. F. 9-11	Gym.	468 W. 141
Michaelis, A. Instr. (27)		P. & S.	15 W. 88
Miller, A. M. Asst. Prof. (22)		P. & S.	142 S. 10, Newark, N. J.
Miller D. S. Prof. (16)		503 Hm.	4 Lorillard Hall, Chelsea Sq.

DIRECTORY OF OFFICERS

499

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Miller, J. A. Prof. (17)		P. & S.	18 W. 51
Miller, R. F. Lib'n Col. Coll.		Hm.	502 W. 113
Miller, S. O. Asst. Prof. (19)	M.-F. 2-3	603 E.	West Nyack, N. Y.
Miller, W. Lib. Sup.		L.	Livingston
Minnick, J. H. Tr. (36)		H. M. S.	510 W. 124
Mislig, M. Clin. Asst. (32)		V. C.	330 E. 72
Mitchell, H. B. Prof. (15)		304 Hm.	
Mitchell, W. C. Lect. (30)	M. W. 4-4:30	512 K.	37 W. 10
Mohr, W. R. Chief Clerk	M.-F. 9-5; S. 9-12	213 L.	330 W. 142
Monroe, P. Prof. (11)	M. W. 3-4	321 T.	44 Prospect Dr., Yonkers, N. Y.
Montague, W. P. Assoc. Prof. (16)	M. 3-4	707 P.	
	M. W. 10:30-11	335 B.	600 W. 115
Moore, Annie E. Instr.		T.	419 W. 119
Moore, F. G. Prof. (18)	Tu. Th. 10-11	504 Hm.	15 Claremont ave.
Moore, H. L. Prof. (12)		501 K.	
Moore, J. B. Prof. (9)	Absent on leave 1913-14		
Morecroft, J. H. Asst. Prof. (18)	W. 10-11	508 E.	567 W. 73
Morgan, J. L. R. Prof. (12)		411 Hv.	Palisade, N. J.
Morgan, O. S. Prof. (20)	M. Tu. Th. F. 2-4	505 S.	350 W. 55
Morgan, T. H. Prof. (14)		S.	400 Convent ave.
Morgulis, S. Instr. (29)		P. & S.	409 W. 117
Morse, Grace E. Tr. (36)		H. M. S.	184 Claremont ave.
Morse, L. B. Instr. (28)	Daily 11:55	F.	123 E. 89
Mosenthal, H. O. Assoc. & Instr. (24)			527 W. 124
Moses, A. J. Prof. (9)	M.-Th. 2-5	P. & S.	157 W. 79
Moss, L. D. Assoc. (25)	M. Tu. Th. 10:30-12	307 S.	
Moss, Louise B. Asst. (34)		307 E.	248 W. 131
Mudge, Isadore G. Ref. Libn. (6)		T.	515 W. 122
Müller, Berthe, Tr. (36)		L.	34 W. 84
Muller, H. F. Instr. (25)	M. W. F. 11-11:30	H. M. S.	503 W. 121
Muller, H. J. Asst. (31)	M. W. 10-12	111 B.	629 W. 133
Mullins, G. W. Instr. (29)	M. W. F. 2-4	613 S.	562 W. 150
Munroe, H. S. Prof. (9)	Tu. Th. S. 10-10:30	309 B.	617 W. 138
Murphy, R. K. Instr. (28)	M. W. F. 10-11	407 M.	501 W. 120
Murphy, W. H. Asst. (30)		313 Hv.	514 W. 114
Mussey, H. R. Assoc. Prof. (17)	M.-Th. 9:30-10	308 B.	Croton, N. Y.
Muzzey, D. S. Assoc. Prof. (21)	Tu. Th. 11-12	338 B.	492 Van Cortlandt Park ave., Yon- kers, N. Y.
Myers, E. E. Clin. Asst. (32)		V. C.	418 Central Park W.
Nagle, W. J. Tr. (36)		H. M. S.	435 W. 119
Neergaard, A. E. Asst. (31)		P. & S.	617 West End ave.
Neish, A. C. Instr. (26)	M. Tu. Th. 10-11	610 Hv.	130 Claremont ave.
Neitz, J. D. Tr. (36)		H. M. S.	527 W. 124
Nelson, J. M. Instr. (26)	M.-F. 2-4	408 Hv.	531 W. 124
Nestler, E. J. Clin. Asst. (32)		V. C.	
Norrie, V. H. Prof. (15)		P. & S.	21 W. 37
Norris, H. L. Supt. Bldgs. & Grounds (6)	M.-F. 10-11	110 L.	Livingston
Norsworthy, L. D. Asst. Prof. (22)	M. F. 10-11	401 E.	430 W. 118
Norsworthy, Naomi, Assoc. Prof. (17)	Absent on leave first half-year	T.	430 W. 118

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Northcott, J. A. Instr. (29)	M.-F. 2-3	212 Hm.	Furnald
Norton, N. R. Instr. (27)		P. & S.	113 E. 70
Noyes, Clara D. Lect. (34)		T.	
Noyes, W. Asst. Prof. (19)	M. W. 3-4	232 T.	223 Leonia ave., Leonia, N. J.
Nutting, M. Adelaide, Prof. (15)	M. 11-12; 2-3; W. 11-12; F. 10-11 Absent on leave sec- ond half-year	109 H. A.	411 W. 115
Oastler, F. R. Prof. (23)		P. & S.	126 W. 59
Odell, G. C. D. Prof. (12)	M. W. 2-3	604 Hm.	44 W. 44
Oehler, J. C. Asst. Prof. (14)		Phar.	Carlstadt, N. J.
Ogden, Helen, Tr. (36)		H. M. S.	27 Washington Sq. N.
Ogilvie, Ida H. Asst. Prof. (21)	Th. 10	214 B.	29 Claremont ave.
Oliver, Mrs. Mary A. Tr. (36)		H. M. S.	541 W. 123
Osborn, H. F. Prof. (10)		Am. Mus. Nat. Hist.	
Osburn, R. C. Asst. Prof. (18)	W. 10-11	409 B.	557 W. 124
Osgood, C. Clin. Asst. (33)		V. C.	58 Central Pk. W.
Osgood, H. L. Prof. (9)		613 K.	526 W. 150
Ottenberg, R. Instr. (29)		P. & S.	164 W. 87
Overman, J. R. Tr. (36)		H. M. S.	527 W. 124
Overstreet, H. A. Lect. (30)	M. W. 4-4:30	701 P.	2426 University ave.
Packard, C. Asst. (30)	M. Th. S. 9-10	604 S.	Hartley
Painter, H. M. Prof. (14)		P. & S.	62 W. 55
Palmblad, H. V. E. Instr. (28)	M. W. 10-10:30; F. 3	410 Hm.	41 St. Nicholas Terrace
Panuska, F. C. Asst. (34)		T.	428 E. 77
Pappenheimer, A. M. Assoc. (24)		P. & S.	309 W. 99
Pardee, H. E. B. Instr. (29)		P. & S.	156 E. 61
Parker, Linette A. Instr. (34)		T.	509 W. 121
Parr, H. L. Asst. Prof. (19)		207 E.	
Pascale, V. Clin. Asst. (32)		V. C.	1 1/2 Charlton
Patrick, Sara L. Instr. (34)		T.	505 W. 121
Patterson, F. A. Instr. (28)	Th. 10-12; 2-4	306 P.	90 Morningside Dr.
Patterson, H. S. Asst. Prof. (21)		P. & S.	130 E. 62
Paulsen, E. P. Gym. Asst.		Gym.	524 W. 123
Peabody, Mary G. Tr. (36)		H. M. S.	400 W. 118
Peacock, Mary H. Instr. (34)		T.	Whittier
Pearson, H. C. Prin. H. M. Elem. Sch. (13)	M. Tu. Th. 2-3; W. 8:45-10	H. M. S.	501 W. 120
Peck, C. H. Prof. (17)		P. & S.	30 W. 50
Peckham, G. W., Jr. Asst. (31)	Th. 3-5	615 Hm.	Livingston
Peele, R. Prof. (10)	M. Tu. Th. F. 10-11	405 M.	490 West End ave.
Pegram, G. B. Assoc. Prof. (17)		406 F.	Waldo ave. near 246 St.
Perkins, Florence M. Tr. (36)		H. M. S.	175 Claremont ave.
Perlzweig, W. A. Asst. (31)		P. & S.	1421 Prospect ave.
Perrin, J. Visiting French Prof. (22)	M. W. 5:30	301 Hv.	
Perrine, H. Asst.	Tu. Th. 11-12	408 E.	820 West End ave.
Perry, E. D. Prof. (10)	M. W. 3-4	708 P.	542 W. 114
Peterson, F. Prof. (15)		P. & S.	20 W. 50
Pfeiffer, G. A. Asst. (30)		215 Hm.	506 W. 43
Phelps, Alice E. Tr. (36)		H. M. S.	405 W. 118

DIRECTORY OF OFFICERS

501

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Phelps, G. M. Asst. (31)		P. & S.	155 E. 79
Pike, F. H. Asst. Prof. (20)		P. & S.	Tenafly, N. J.
Pitkin, W. B. Assoc. Prof. (21)	W. 3-4	403 J.	Dover, N. J.
Poffenberger, A. T., Jr. Lect. (29)		409 S.	Livingston
Pomeroy, C. H. Bursar			
Teachers Coll. (6)	M.-F. 9-4:30; S. 9-12	102 T.	430 W. 119
Pool, E. H. Assoc. (25)		P. & S.	107 E. 60
Poor, C. L. Prof. (14)	Absent on leave		35 E. 69
	1913-14		
Porterfield, A. W. Instr. (26)	M. W. F. 9-10	114 B.	Livingston
Potter, N. B. Asst. Prof. (17)		P. & S.	591 Park ave.
Pou, R. E. Clin. Asst. (33)		V. C.	20 W. 50
Powell, C. L. Instr. (28)	Tu. Th. 2	606 Hm.	Furnald
Powell, T. R. Assoc. Prof. (21)	Tu. Th. 10-12	511 K.	Livingston
Poyntz, Juliet S. Asst. (31)	M. W. 1-2	338 B.	1843 Madison ave.
Pratt, Isabelle L. Recorder			
Teachers Coll. (5)	M.-F. 10-12; 3-4; S. 10-12	107 T.	221 W. 104
Pratt, Marion R. Sec. H. M. S. (36)		H. M. S.	221 W. 104
Prescott, Harriet B. Lib. Sup. (6)	M.-F. 9-5	205 L.	36 Gramercy Park
Preston, G. B. Asst. Prof. (22)	M. W. 11-12; W. 4-4:30	605 E.	200 Sylvan ave Leonia, N. J.
Prettyman, V. Prin. H. M. (36)			
High Sch. (11)		H. M. S.	501 W. 120
Prévôt, M. Asst. (24)	M. Tu. Th. F. 2-5	601 A.	115 E. 30
Prime, F., Jr. Asst. (31)		P. & S.	131 E. 66
Prince, J. D. Prof. (12)	W. 11-12	406 P.	Sterlington, N. Y.
Proben, C. I. Instr. (25)		P. & S.	160 E. 71
Prudden, T. M. Emer. Prof. (6)			160 W. 59
Punnett, P. W. Asst. (31)		609 Hv.	182 Claremont ave.
Pupin, M. I. Prof. (10)			
Quel, B. Clin. Asst. (32)		V. C.	217 E. Broadway
Raeder, Ruth W. Lect. (30)	M. 10-11	214 B.	600 W. 133
Rainforth, S. I. Clin. Asst. (33)		V. C.	227 W. 71
Rainsford, L. R. Clin. Asst. (33)		V. C.	981 Madison ave.
Ramsdell, E. G. Instr. (28)		P. & S.	White Plains, N. Y.
Rand, F. V. Asst. (31)	M. 1-3	512 S.	72 Morningside ave., E.
Rathgen, K. F. T. Kaiser Wil- helm Prof. (22)	Tu. Th. 3-4	512 K.	419 W. 117
Rautenstrauch, W. Prof. (15)	M. 10; Tu. 11 Absent on leave sec- ond half-year	507 E.	Palisade, N. J.
Raynor, Nina F. Tr. (36)		H. M. S.	501 W. 122
Reddick, H. W. Instr. (26)	Tu. Th. 11	211 Hm.	Livingston
Redfield, H. S. Prof. (12)	Tu. Th. F. 10-12	408 K.	1925 Seventh ave.
Reesor, Mary, Instr. (34)		T.	106 Morningside Dr.
Reimer, Marie, Assoc. Prof. (17)		B.	
Rejall, A. E. Asst. (31)	Tu. Th. 10-11	413 S.	54 Tompkins ave., Bklyn.
Remer, J. Clin. Asst. (33)		V. C.	58 W. 58
Remy, A. F. J. Asst. Prof. (15)	Tu. Th. 3-4 Absent on leave sec- ond half-year	511 P.	204 W. 141
Remy, F. J. Clin. Asst. (32)		V. C.	253 W. 58

DIRECTORY OF OFFICERS

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Reuben, M. S. Asst. (31)		P. & S.	1967-7th ave.
Reynolds, J. E. Assoc. Prof. (21)		K.	1 W. 64
Richard, E. D. Lect. (29)	M. W. F. 10-10:30	113 U.	12 W. 103
Richards, H. M. Prof. (13)	M. F. 10-11	316 B.	
Richardson, Charlotte B. Asst.		T.	191 Claremont ave.
Riesenfeld, E. A. Asst. (31)		P. & S.	152 W. 88
Robbins, Ida E. Tr. (36)		H. M. S.	420 W. 119
Robbins, Very Rev. W. L. Dean			
Gen. Theol. Sem. (13)		G. T. S.	1 Chelsea Sq.
Robert, A. L. Libn. Med. Sch.		P. & S.	505 W. 112
Robert, Mme. M. L. Tr. (36)		H. M. S.	1115 Amsterdam ave.
Robinson, E. Dir. Met. Mus.			
Art (15)			84 Irving Place
Robinson, Ethel M. Asst. (34)		T.	514 W. 122
Robinson, J. H. Prof. (11)	Tu. Th. 9:30-10	601 K.	567 W. 113
Rockwell, Bertha L. Libn.			
Barnard Coll. (6)		B.	322 E. 197
Rockwell, Ethel E. Tr. (36)		H. M. S.	322 E. 197
Roff, A. W. Clin. Asst. (32)		V. C.	68 W. 92
Rogers, Lillian E. Tr. (36)		H. M. S.	502 W. 113
Rogers, O. H. Lect. (29)		P. & S.	346 Broadway
Rohdenburg, G. L. Asst. (31)		P. & S.	
Roon, L. Instr. (32)		Phar.	115 W. 68
Rose, Mrs. Mary D. S. Asst.			
Prof. (19)	M. F. 2-3	415 H. A.	449 W. 123
Roy, M. M. Sec. of Appoint- ments (5)	M.-F. 9-5; S. 9-12	302 East	Grand View, Nyack, N. Y.
Rosenthal, A. Clin. Asst. (32)		V. C.	51 E. 96
Rubner, C. Prof. (14)	W. Th. 10-11	J.	316 W. 94
Ruger, H. A. Asst. Prof. (19)	W. F. 2; S. 10	338 T.	854 W. 181
Runyon, E. W. Asst. Sec. Coll.			
Phar.		Phar.	14 W. 38
Rushby, H. H. Prof. & Dean Coll.			
of Phar. (5, 14)		Phar.	776 De Graw ave., Newark, N. J.
Russell, J. E. Prof. & Dean			
Teachers Coll. (5, 11)	M.-F. 11-12	T.	500 W. 121
Russell, J. I. Instr. (25)		P. & S.	37 E. 61
Russell, Martha M. Supt. Sloane			
Hosp'l		S. H.	447 W. 59
Ryder, G. H. Instr. (25)		P. & S.	43 W. 50
Sachs, J. Prof. (13)	M. W. 3-4; S. 11-12	229 T.	225 W. 86
Sait, E. M. Asst. Prof. (21)	Tu. Th. 10-11; W. F. 1-3	711 Hm.	421 W. 121
Sanford, Laura, Sec. Dept. Phys.			
Educ. T. C. (34)		T.	90 Morningside Dr.
Saunders, T. L. Instr. (25)		P. & S.	43 W. 50
Saville, M. H. Prof. (13)	M. W. 4-5	706 J.	292 W. 92
Sawyer, C. P. Press Repre- sentative			20 Vesey
Saylor, R. B. Asst. (31)	F. 3-3:30	401 F.	Livingston
Schneider, W. A. Asst. (34)		T.	Furnald
Schnepel, G. A. Clin. Asst. (33)		V. C.	238 W. 106 ave.
Schroeder, F. C. Asst. Prof. (22)	Tu. Th. 10-11	606 F.	220 Wadsworth

DIRECTORY OF OFFICERS

503

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Schulman, M. Instr. (26)		P. & S.	229 W. 111
Schulte, H. von W. Assoc. Prof. (16)		P. & S.	202 W. 86
Schulze, H. H. L. Instr. (26)	M. 2-3 Tu. 2-3; F. 3:30-4	608 J. 409 Hm.	43 Ridge Dr., Yonkers, N. Y.
Schumpeter, J. Visiting Aus- trian Prof. (22)			Hotel Marseilles, 103 & Broadway
Schuyler, R. L. Asst. Prof. (20)	M. W. 11-12	718 Hm.	616 W. 137
Schwable, Bertha, Tr. (37)		Sp. S.	434 W. 120
Schwerdtfeger, O. M. Instr. (26)		P. & S.	54 E. 58
Scott, E. L. Instr. (28)		P. & S.	258 Woodworth ave., Yonkers, N. Y.
Scott, G. A. Asst. (30)		305 F.	4 Valley Pl., Edge- water, N. J.
Scripture, E. W. Assoc. (24)		P. & S.	236 W. 74
Seager, H. R. Prof. (12)	Tu. Th. 2:10-3	514 K.	257 W. 86
Seaman, Emily C. Instr. (34)		T.	511 W. 112
Seibert, Janet R. Recorder Dept. Phys. Educ. T. C. (34)		T.	620 W. 122
Seligman, E. R. A. Prof. (9)	Tu. Th. 2-3	512 K.	324 W. 86
Severinghaus, W. L. Instr. (27)	M. W. Th. F. 11-12	405 F.	417 W. 120
Shaine, M. S. Clin. Asst. (32)		V. C.	204 W. 138
Shapleigh, Bertha E. Instr. (34)		T.	508 W. 122
Sharp, J. C. Instr. (28)		P. & S.	436 9th St., Bklyn.
Sharpe, W. Clin. Asst. (32)		V. C.	
Shear, T. L. Assoc. (24)			468 Riverside Dr.
Shearer, L. H. Instr. (26)		P. & S.	449 Park ave.
Sheldon, Carolyn, Asst. (31)	M. 1-2; W. 9-10; Th. 4-4:30; F. 11	338 B.	602 W. 137
Shenton, H. N. Asst. (31)	M.-F. 10-11	503 K.	552 Riverside Dr.
Shepherd, W. R. Prof. (14)	Absent on leave 1913-14		468 Riverside Dr.
Sherman, F. D. Prof. (10)	M. Tu. Th. F. 2-3	409 A.	158 W. 105
Sherman, H. C. Prof. (14)	M. W. F. 2-3	509 Hv.	Locust Hill, Hast- ings, N. Y.
Shields, F. S. Clin. Asst. (32)		V. C.	
Shotwell, J. T. Prof. (14)	M. 4-4:30; Tu. 4-5	602 K.	Woodstock, N. Y.
Sicard, M. H. Asst. (30)		P. & S.	104 E. 73
Siceloff, L. P. Asst. Prof. (21)	M. W. F. 9-10	210 Hm.	
Sill, Ruth P. Instr. (34)		T.	528 W. 114
Silleck, W. M. Clin. Asst. (32)		V. C.	19 W. 122
Silver, L. M. Asst. (30)		P. & S.	103 W. 72
Simkhovitch, V. G. Assoc. Prof. (15)	Absent on leave first half-year		26 Jones
Simpson, W. B. Clerk Coll. of Phar. (5)	Daily 9-5	Phar.	44 Morton Pl., E. Orange, N. J.
Simpson, W. K. Prof. (13)		P. & S.	952 Lexington ave.
Singer, D. A. Clin. Asst. (33)		V. C.	42 W. 114
Sittenfield, M. J. Instr. (29)		P. & S.	73 E. 90
Sleffel, C. C. Asst. Prof. (21)	Tu. Th. 1-2	T.	195 Claremont ave.
Slichter, W. I. Prof. (18)	M. W. F. 10-11	504 E.	431 Riverside Dr.
Sloane, W. M. Prof. (11)			105 E. 69
Slosson, E. E. Assoc. (24)			530 W. 123

DIRECTORY OF OFFICERS

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Smith, A. Prof. (20)	M. W. F. 10-12; Tu. Th. 10-11	302 Hv. P. & S.	593 Riverside Dr. 2880 Broadway
Smith, C. H. Instr. (29)		212 T.	250 W. 88
Smith, D. E. Prof. (12)	Tu. Th. 11	A.	Hartley
Smith, E. R. Ref. Libn. (6)	Daily 2-5		
Smith, Emma P. Sec. for Women Grad. Students (6)	M. Tu. Th. 3-5; W. F. S. 9-10	301 P. V. C.	Brooks 219 Audubon Ave.
Smith, G. T. Clin. Asst. (33)		T.	106 Morningside Dr.
Smith, Meredith, Instr. (34)		402 K.	169 E. 70
Smith, Munroe, Prof. (9)	M. W. 3-4		
Smith, N. K. Lect. (30)		301 S.	Furnald
Smith, W. S. Asst. (31)	M. W. F. 1-2	P. & S.	375 Park ave.
Snyder, R. G. Instr. (27)		T.	Whittier
Southard, Lydia, Instr. (34)		H. M. S.	
Spaulding, W. Tr. (36)		T.	Whittier
Spohr, Wilhemina, Instr. (34)		Gym.	608 W. 140
Springer, A. P. Gym. Asst.		P. & S.	981 Madison ave.
St. John, F. B. Instr. (28)		T.	44 Church, New Rochelle, N. Y.
Stackpole, Caroline E. Instr. (34)			Livingston
Stacy, L. J. Tr. (36)		H. M. S.	132 E. 60
Stadtmüller, N. Prof. (23)		P. & S.	1159 Dean, Bklyn.
Stanton, A. D. Asst. Supt.		110 L.	106 Morningside Dr.
Staples, Clara G. Instr. (34)		T.	5 W. 54
Starr, M. A. Prof. (9)		P. & S.	15 Claremont ave.
Steele, Roxana A. Tr. (36)		H. M. S.	596 Riverside Dr.
Steeves, H. R. Instr. (26)	W. 10-11	610 Hm.	115 W. 87
Stetten, D. Instr. (26)		P. & S.	130 Claremont ave.
Stevens, Romiett, Asst. Prof. (21)	Tu. S. 10-11; Th. 3-4	227 T.	617 W. 127
Stewart, Isabel M. Instr. (34)		T.	1058a Sterling Pl., Bklyn.
Stewart, Mary W. Asst. (31)		312 B.	
Stifler, W. W. Instr. (28)	M. Th. 1-2 Tu. 4:30-5	305 F. P. & S.	Furnald 35 E. 39
Stillman, A. Instr. (27)		P. & S.	830 Park ave.
Stillman, E. G. Asst. (32)			
Stone, H. F. Prof. & Dean of Law Sch. (4, 5, 18)	M. W. F. 12:20; Tu. Th. 10-12	403 K.	2 Chestnut, Engle- wood, N. J.
Stone, Theo R. Tr. (36)		H. M. S.	434 W. 120
Stowell, E. C. Lect. (22)	M. Tu. 12:30-1; 2-3	513 K.	435 Riverside Dr.
Stowell, E. S. Lect. (34)		T.	
Strayer, G. D. Prof. (16)	Tu. Th. 11-12 Absent on leave sec- ond half-year	217 T.	533 W. 124
Strong, A. M. Instr. (29)		P. & S.	251 W. 89
Strong, O. S. Instr. (25)		P. & S.	Livingston
Stuart, Florence, Tr. (36)		H. M. S.	
Sturtevant, E. H. Asst. Prof. (22)	M. 11-11:30	510 Hm.	12 Sterling Place, Edgewater, N. J.
Sturtevant, Ethel, Lect. (29)	Tu. Th. 9:30-10	137 B.	535 W. 113
Suftern, A. E. Lect. (30)	M. W. 10-11	706 Hm.	501 W. 123
Sumner, A. E. Assoc. (24)		P. & S.	127 W. 58
Sutherland, Louise C. Instr. (34)		T.	106 Morningside Dr.

DIRECTORY OF OFFICERS

505

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Suzzallo, H. Prof. (16)	Absent on leave first half-year	T.	501 W. 120
Swann, A. W. Instr. (27)		P. & S.	124 E. 61
Swift, G. M. Assoc. (24)		P. & S.	20 W. 55
Tannahill, Sallie B. Instr. (34)		T.	404 W. 115
Tassin, A. D. Asst. Prof. (18)	Th. 2-4	611 Hm.	16 Gramercy Park
Taylor, H. C. Prof. (23)		P. & S.	32 W. 50
Taylor, R. Instr. (29)	M. 10-11	606 Hm.	Livingston
Teale, O. Instr. (34)		T.	
Tenney, A. A. Asst. Prof. (19)	M. W. 5	506 K.	400 W. 118
Terriberry, W. K. Instr. (27)		P. & S.	135 W. 47
Terry, C. T. Prof. (12)	M. Tu. Th. F. 5:30-6	410 K.	62 E. 58
Thacher, H. C. Instr. (27)		P. & S.	20 W. 50
Thacher, J. S. Prof. (23)		P. & S.	20 W. 50
Thatcher, E. J. Instr. (34)		T.	239 E. 19
Thomas, A. W. Instr. (28)		513 Hv.	Palisades Park, N. J.
Thomas, C. Prof. (11)	W. F. 11-12	513 P.	490 Riverside Dr.
Thomas, C. W. Asst. Prof. (19)	M.-F. 11-1	510 E.	Warren ave., Palisade, N. J.
Thompson, Alice, Tr. (36)		H. M. S.	
Thorndike, A. H. Prof. (15)	M. W. 3-4	614 P.	Lowerre Summit, Yonkers, N. Y.
Thorndike, E. L. Prof. (12)	M. W. 10; M. Th. 2	329 T.	Montrose, N. Y.
Thornton, Anna C. Instr. (34)		T.	410 E. 178
Thurber, S. W. Instr. (25)		P. & S.	104 E. 39
Thurston, E. D., Jr. Instr. (26)	M. Tu. F. 4-5	509 E.	521 W. 112
Tilney, F. Assoc. (24)		P. & S.	161 Henry, Bklyn.
Tobey, Mrs. Evelyn S. Instr. (34)		T.	195 Claremont ave.
Todd, H. A. Prof. (10)	M. W. 5	501 P.	824 West End ave.
Tombo, R., Jr. Assoc. Prof. (14)	M. W. F. 10-11	419 W. 117	380 Riverside Dr.
Tower, R. W. Hon. Curator (30)		Am. Mus. Nat. Hist.	New Rochelle, N. Y.
Trent, W. P. Prof. (11)	Th. 12:30-1	608 P.	139 W. 78
Trowbridge, C. C. Asst. Prof. (22)	Tu. W. Th. S. 10	509 F.	434 Riverside Dr.
Tucker, S. A. Asst. Prof. (15)	Daily 9:30-12	312 Hv.	155 E. 61
Turck, Viola, Research Asst. (32)		B.	460 Riverside Dr.
Turek, H. T. Sec. to Dir. of Gym.		Gym.	Winfield, L. I.
Tuttle, G. A. Asst. Prof. (21)		P. & S.	49 W. 49
Tyson, H. H. Instr. (25)		P. & S.	47 W. 51
Ulrey, C. Asst. (32)	Tu. Th. 11-12	303 F.	Furnald
Upton, C. B. Asst. Prof. & Sec. Teachers Coll. (5, 9)	M. W. 10-11:30 Tu. Th. 3-4:30	106 T.	500 W. 121
Upton, Mrs. Siegfried M. Tr. (36)		H. M. S.	500 W. 121
Valentine, Laura, Head Soc. Worker Sp. S. (37)		Sp. S.	94 Lawrence
Van Amringe, J. H. Emer. Prof. (6)			48 W. 59
Van Arsdale, May B. Asst. Prof. (19)	M. W. 4; Tu. Th. 11	209 H. A.	457 W. 123
Van Beuren, F. T. Clin. Asst. (32)		V. C.	812 Park ave.
Vander Bent, T. J. Lect. (34)		T.	548 W. 162
Vanderbilt, Sadie B. Instr. (34)		T.	509 W. 121
Vanderburgh, F. A. Lect. (29)	W. 10-11	406 P.	53 Washington Sq.
Van Deventer, Mabel, Asst. (37)		Sp. S.	94 Lawrence

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Van Doren, C. Instr. (27)	M.-F. 1:30-2; S. 11-12	608 Hm. P. & S. 340 B.	414 W. 120 417 W. 114
Van Etten, R. C. Instr. (29)		510 P.	90 Morningside Dr.
Van Hook, L. R. Assoc. Prof. (18)	M. F. 3	H. M. S.	
Van Noppen, L. C. Queen Wilhelmina Lect. (23)	M. W. 10	V. C.	616 Madison ave.
Van Sant, J. T. Tr. (36)		P. & S.	181 W. 75
Van Tuyt, F. M. Asst. (32)		P.	1035 Stebbins ave.
Van Wagenen, C. D. Clin Asst. (33)		P. & S.	680 Madison ave.
Vaughan, J. C. Instr. (27)		V. C.	Yonkers, N. Y.
Vexler, F. Libn. Sch. Philos. (32)		P. & S.	106 E. 60
Vogel, K. M. Asst. Prof. (17)		Phar.	354 E. 78
Vogeler, W. J. Clin. Asst. (32)		P. & S.	137 E. 39
Voorhees, J. D. Assoc. Prof. (15)		413 H. A.	33 Park ave., New Rochelle, N. Y.
Vorisek, A. Prof. (15)		421 L.	414 W. 119
Vosburgh, A. S. Instr. (25)		T.	265 Henry
Vulté, H. T. Asst. Prof. (13)	W. 4-4:30	512 M.	Morristown, N. J.
Wadelton, Helen C. Recorder (5)		P. & S.	50 E. 34
Wald, Lillian D. Lect. (34)		T.	411 W. 114
Walker, A. L. Prof. (16)	M. F. 11-12	T.	501 W. 121
Walker, J. B. Prof. (16)		J.	430 W. 118
Walker, M. Barbour, Sec. to Dean T. C. (34)		H. M. S.	429 W. 117
Walsh, J. J. Instr. (34)		P. & S.	24 W. 50
Ward, F. E. Assoc. (24)	Th. 10:45-11:45	A.	1 W. 94
Ward, N. B. Tr. (36)		505 H. A.	Milton, Mass.
Ward, W. Assoc. (24)		403 A.	Bronxville, N. Y.
Ware, A. Assoc. (24)		Sp. S.	Hillsdale, N. J.
Ware, W. R. Emer. Prof. (6)		T.	611 W. 127
Warner, L. A. Asst. Prof. (19)	F. 2		434 W. 120
Warren, C. P. Asst. Prof. (17)	M. F. 10-11	614 F.	Furnald
Watkins, Mrs. Florence V. Tr. (37)		H. M. S.	421 W. 119
Watson, Ruth, Asst. (34)		139 B.	Brooks
Webb, H. W. Instr. (25)	M. W. F. 9-10; Tu. Th. 10-11	111 B.	620 W. 122
Weeks, Florence L. Tr. (36)		Gym.	453 W. 155
Weeks, Mabel F. Assoc. (24)	Tu. 10-11	327 T.	507 W. 124
Weeks, R. Prof. (17)	Tu. Th. 10-11	305 F.	540 Manhattan ave.
Weeman, G. Gym. Instr.		V. C.	71 E. 96
Weick, C. W. Asst. Prof. (21)	Daily 11-12		30 W. 50
Weinrich, M. F. Instr. (27)	Tu. Th. 9-10	H. M. S.	
Weinstein, J. W. Clin. Asst. (32)		Sp. S.	130 Claremont ave.
Weir, R. F. Emer. Prof. (6)		511 F.	25 Claremont ave.
Weiser, Lucy H. Tr. (36)		V. C.	
Wells, Margaret E. Tr. (37)		H. M. S.	
Wendell, G. V. Prof. (18)			
West, D. Clin. Asst. (32)			
Wheeler, Clara M. Tr. (36)			
Wheeler, Elizabeth H. Recorder Med. Fac. (5)		P. & S.	437 W. 59
Wheeler, J. R. Prof. (10)		708 P.	433 W. 117
Wheelock, Mrs. Elizabeth M. Tr. (36)		H. M. S.	500 W. 121
Whipple, A. O. Instr. (27)		P. & S.	981 Madison ave.
Whitaker, F. P. Asst. (30)			151 W. 12

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Whitaker, M. C. Prof. (18)	Tu. Th. S. 9-12	305 Hv.	454 Ft. Washington ave.
Whitbeck, B. H. Clin. Asst. (32)		V. C.	
Whitin, E. S. Asst. (30)	W. 11-12	611 K.	Hartley
Whiting, J. R. Instr. (27)		P. & S.	17 E. 38
Whitley, Mary T. Instr. (34)		T.	405 W. 118
Whitman, R. Asst. Prof. (15)		P. & S.	283 Lexington ave.
Whittemore, H. L. Instr. (28)	Tu. Th. 10-11	606 F.	54 Morningside Dr.
Wiener, H. J. Clin. Asst. (32)		V. C.	142 W. 71
Wieser, G. F. Instr. (28)	Daily 4-5	E.	Furnald
Wilcox, H. B. Instr. (28)		P. & S.	159 E. 70
Wile, I. S. Clin. Asst. (33)		V. C.	230 W. 97
Williams, H. B. Assoc. (24)		P. & S.	507 Madison ave.
Williams, J. F. Instr. (34)		T.	90 Morningside Dr.
Williams, L. R. Assoc. (23)		P. & S.	882 Park ave.
Williams, P. H. Instr. (25)		P. & S.	249 W. 72
Williams, R. H. Tr. (36)		H. M. S.	The Bryn Mawr, 121 & Amsterdam ave.
Williams, T. Prof. & Dir. Sch. Journ. (5, 20)	Tu. Th. S. 11-12	205 J.	423 W. 117
Williams, W. R. Assoc. Prof. (16)		P. & S.	67 W. 85
Williamson, G. F. Asst. (31)	M. W. 9	407 S.	1532 Amsterdam ave.
Wills, A. P. Prof. (14)	M. W. 9-10	502 F.	25 Claremont ave.
Wilson, E. B. Prof. (10)	Tu. W. Th. 9-10	608 S.	411 W. 114
Wilson, Mary F. Libn. Nat. Sci.			618 W. 114
Wimmer, C. P. Asst. Prof. (18)		Phar.	630 W. 139
Winchell, Cora M. Instr. (34)		T.	176 Elm, Mt. Vernon, N. Y.
Winslow, Mrs. Anne R. Lect. (34)		T.	411 W. 114
Winslow, C.-E. A. Lect. (34)		T.	411 W. 114
Wise, F. Clin. Asst. (33)		V. C.	828 Lexington ave.
Wittson, A. J. Clin. Asst. (33)		V. C.	273 W. 73
Woglom, W. H. Asst. Prof. (21)		P. & S.	
Wood, F. C. Dir. Cancer Research (13)		P. & S.	200 W. 56
Wood, T. D. Prof. and College Physician T. C. (6, 12)	M.-F. 9-10; 3-4	T.	501 W. 120
Woodbridge, F. J. E. Prof. & Dean Grad. Fac. & Fac. Fine Arts (4, 5, 7, 12)	M. W. Th. F. 10-12	305 East	Montrose, N. Y.
Woodhull, J. F. Prof. (11)	Tu. 11	413 T.	612 Van Cortlandt Park ave., Yonkers, N. Y.
Woodruff, I. O. Instr. (26)		P. & S.	152 W. 78
Woodworth, R. S. Prof. (14)	M. Tu. 11; Th. F. 10	405 S.	Montrose, N. Y.
Worthington, Katharine S. Asst.		T.	414 W. 120
Wright, E. H. Instr. (27)	M. W. 4-5	606 P.	
Wyman, G. H. Tr. (36)		H. M. S.	Furnald
Yates, Anna B. Asst. (32)		B.	417 W. 118
Yeomans, F. C. Inst. (29)		P. & S.	230 W. 59
Yohannan, A. Lect. (29)	W. F. 1-2	402 P.	557 W. 124
Young, C. H. Prof. (12)	M. 2-3	512 Hm.	
	M. 4-5	711 P.	312 W. 88
Young, Helen P. Sec. to Dean & Provost of B. C.	M.-F. 10-12; 2-4	B.	430 W. 119

DIRECTORY OF OFFICERS

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Yunck, Bernadine M. Asst. (34)		T.	422 Meeker, S. Orange, N. J.
Zanetti, J. E. Asst. Prof. (22)	Tu. Th. 10-12	607 Hv.	Hotel Gotham
Zelaya, A. Clin. Asst. (32)		V. C.	142 W. 64
Zerbe, Margaret M. Instr. (34)		T.	
Zinsser, H. Prof. (22)		P. & S.	314 W. 103

DIRECTORY OF STUDENTS

The italic letter following the name indicates the school in which the student is primarily registered—as follows:

<i>c</i> College	<i>pa</i> School of Practical Arts (Teachers College)
<i>l</i> School of Law	<i>pl</i> School of Political Science
<i>m</i> School of Medicine	<i>s</i> School of Mines, Engineering, and Chemistry
<i>p</i> School of Pure Science	<i>j</i> School of Journalism
<i>ph</i> School of Philosophy	<i>b</i> Barnard College
<i>ed</i> School of Education (Teachers College)	<i>fa</i> Fine Arts (Architecture, Music, and Design)
<i>phar</i> College of Pharmacy	

The numbers 1, 2, 3, and 4 preceding these letters indicate the class. The abbreviation *gr* indicates a graduate student in the professional schools, *Sp* a special matriculated student, *nm* a non-matriculated student.

The names of women are indicated by a dagger (†).

"Hartley," "Livingston," "Furnald," "Brooks," and "Whittier" refer to the University Residence Halls.

For names of students not in Directory, see Class lists in Annual Catalogue, and for addresses consult card index in Office of Registrar.

Aaronson, G. † 1 <i>b</i> 170 & Ft. Washington ave.	Adams, L. A. <i>p</i> Livingston
Abbot, J. M. † 3 <i>ed</i> 47 Claremont ave.	Adams, L. E. † 4 <i>b</i> 366 Halsey, Bklyn.
Abelson, J. <i>p</i> 530 E. 88	Adams, M. P. <i>gr ed</i> 105 E. 22
Abernethy, W. † 3 <i>ed</i> Whittier	Adams, O. H. 1 <i>l</i> Hartley
Abkarian, V. S. 1 <i>s</i> 19 W. 119	Adams, P. E. 1 <i>l</i> 2 W. 55
Abraham, I. † <i>ph</i> 126 E. 83	Adams, R. † 1 <i>b</i> 312 Manhattan ave.
Abramovitz, W. H. 2 <i>l</i> 500 W. 114	Adams, S. <i>gr ed</i> 122 & Claremont ave.
Abrams, J. F. † 3 <i>ed</i> 134 W. 129	Addison, M. A. C. † <i>nm pa</i> Whittier
Abramson, F. 1 <i>m</i> 1131 Halsey, Bklyn.	Adelstein, G. † 1 <i>b</i> 110 W. 86
Abramson, F. <i>p</i> 1131 Halsey, Bklyn.	Adikes, A. M. † 3 <i>b</i> 211 Fulton, Jamaica
Acker, G. N. 4 <i>m</i> 350 W. 58	Adler, A. A. <i>p</i> 507 Third, Bklyn.
Acker, J. G. 2 <i>j</i> 136 Westminster Rd., Bklyn	Adler, H. 4 <i>m</i> 207 E. 15
Ackerle, I. V. † <i>ph</i> 110 E. 159	Adler, H. 4 <i>c</i> 38 W. 89
Ackerman, A. † 3 <i>ed</i> Hillsdale	Adler, M. B. <i>fa</i> 130 E. Houston
Ackerman, E. B. <i>phar</i> 742 Union, Bklyn.	Adler, R. † <i>pl</i> 152 W. 77
Ackerman, J. S. <i>phar</i> Ossining	Adler, S. L. 2 <i>j</i> Furnald
Ackerman, M. K. † 2 <i>pa</i> 152 W. 93	Adlerblum, C. <i>p</i> 1652 Mt. Hope ave.
Ackerman, R. W. 2 <i>s</i> Hartsdale	Agashkin, N. <i>phar</i> 223-2, Elizabeth
Acosta, J. A., Jr. 1 <i>c</i> 359 Macon, Bklyn.	Ager, L. A. † <i>phar</i> 145 Ave. C
Adams, H. B. 2 <i>c</i> 3100 B'way	Aghnides, N. P. <i>pl</i> 554 W. 114
Adams, H. C. 2 <i>l</i> Livingston	Agne, H. G. <i>fa</i> 1337 Madison ave.

- Agnew, W. C., Jr. *fa* 531 W. 113
 Ahearn, T. J., Jr. *3 l* 627 W. 115
 Ahearn, W. D. *3 l*
 907 Lincoln Pl., Bklyn.
 Ahrens, H. F. *3 m* 124 W. 137
 Aitken, R. T. *ph* 414 W. 121
 Ajamian, A. *phar* 860 Tenth ave.
 Ajamian, C. *phar* 860 Tenth ave.
 Albert, E. *† 1 b*
 131 Prospect ave., Mamaroneck
 Albert, R. B. *† p*
 245 N. Mt. ave., Montclair
 Albrecht, B. M. *† 2 b*
 1417 Vyse ave.
 Albrecht, I. W. *1 c*
 74 Grove, Bklyn.
 Alcorn, M. E. *† 3 ed*
 14 Elmout ave., Port Chester
 Alden, J. W. *3 s*
 465 Ridge, Newark
 Alden, L. *† pl*
 365 Hancock, Bklyn.
 Alexander, B. R. *† 2 b* 34 W. 114
 Alexander, C. M. *p* Furnald
 Alexander, E. *† 4 ed* 411 W. 115
 Alexander, H. D. *† 1 b* Brooks
 Alexander, H. L. *4 m* 116 E. 167
 Alexander, J. J. *4 s* 940 Simpson
 Alfke, E. V. *† gr ed* 346 E. 29
 Allen, A. C. *† gr ed* Whittier
 Allen, C. E., Jr. *1 l* 430 W. 119
 Allen, D. H. *1 c* 604 W. 115
 Allen, E. M. *† 3 ed*
 50 W. 2, Mt. Vernon
 Allen, E. T. *2 s* Hartley
 Allen, G. A. *† 3 ed*
 130 S. Third ave., Mt. Vernon
 Allen, G. M. *fa* Hartley
 Allen, H. F. *3 s* Hartley
 Allen, M. *† 4 ed* 254 Decatur, Bklyn.
 Allen, M. *† 4 b* 604 W. 115
 Allen, R. B. *4 c* Manhasset
 Allen, R. H. *gr ed*
 297 Ryerson, Bklyn.
 Allen, W. C. *1 c*
 Alley, R. W. *3 l* 429 W. 117
 Allison, A. *† 3 ed* 523 W. 121
 Allison, B. R. *3 m* 421 W. 57
 Allison, J. W., Jr. *2 c* 431 W. 117
 Allison, S. W. *1 c*
 385 Central Pk. W.
 Allyn, E. A. *† pl* 423 W. 118
 Almand, B. *1 l* Hartley
 Alperin, D. M. *gr ed* 50 E. 101
 Alperin, J. *2 s* 31 Manhattan
 Alpermann, J. P. *† ph* 411 W. 115
 Alsop, H. P. U. *1 l* 9 E. 39
 Alstet, M. A. *ph* 59 E. 117
 Altenberg, L. *3 s* Hartley
 Amabile, A. *phar*
 29 Market, Paterson
 Amant, A. *2 c* 1472 Madison ave.
 Ambedker, B. R. *pl* 554 W. 114
 Ambrose, F. E. *phar* Bridgeport
 Amedeo, J. B. *phar* 255 Lafayette
 Ames, R. *† 1 pa* 456 E. 19
 Amico, P., Jr. *phar* 221 E. 113
 Amidon, B. E. *† 3 b* Brooks
 Ammerman, B. A. *† gr ed* 416 W. 122
 Amory, C., Jr. *2 l* Furnald
 Amy, E. V. *1 s* 48 W. 70
 Anderson, B. G. *3 s* Furnald
 Anderson, F. M. *3 l* Livingston
 Anderson, G. *† 3 ed* 265 Madison
 Anderson, G. C. *1 m* 346 W. 57
 Anderson, H. R. *ph* 543 W. 123
 Anderson, J. B. *ph* Livingston
 Anderson, M. A. *† 4 ed* Whittier
 Anderson, M. D. *† 1 pa*
 112 Primrose ave., Mt. Vernon
 Andrews, F. *† 3 ed*
 181 Claremont ave.
 Andrews, F. J. *phar* Furnald
 Andrews, J. F. *phar* Furnald
 Andrews, L. E. *† 2 pa* 420 W. 121
 Andrews, L. O. *† gr ed* 519 W. 121
 Andrews, S. T. *† 4 ed* 45 E. 92
 Andrix, I. E. *† ed* 94 Lawrence
 Angle, B. *† 3 ed* Rye
 Angel, E. *phar* 1582 Madison ave.
 Angell, M. A. *3 ed*
 2269 Creston ave.
 Anger, E. L. *1 s* 243 E. 14
 Angulo, C. *3 l* 114 W. 79
 Ansgorge, F. R. *† 3 b*
 625-11, Bklyn.
 Anthony, H. E. *3 c*
 American Museum Nat. Hist.
 Anthony, I. S. W. *pl* 524 W. 123
 Apelian, B. K. *ph*
 462 Irving ave., Bklyn.
 Appelbaum, E. *2 c* 4 E. 117
 Appelt, R. *† 2 b* 601 W. 115
 Appleby, E. T. *2 c* 216 W. 59
 Appleby, F. S. *2 c* 216 W. 59
 Appley, D. M. *† 2 b*
 497 Van Cortlandt Park ave.,
 Yonkers
 April, S. C. *3 ed* 303 Court, Newark
 Arcabasso, J. *phar* 47 Leroy
 Arce, J. M. *2 s* Furnald
 Archer, C. A. *† p* 175 E. 74
 Archer, D. G. *2 c* Nyack

Archer, W. F. *phar*
29 Lawn ave., New Rochelle
Arginteanu, D. † *phar* 474 E. 135
Arguello, J. E. *phar* 155 W. 73
Arkins, C. † 1 *b* 547 Riverside Dr.
Armentrout, W. D. *gr ed* 525 W. 120
Armstrong, B. K. *pl* 251 W. 133
Armstrong, C. 1 *s*
347 Manhattan ave.
Armstrong, E. M. † 4 *ed* Whittier
Armstrong, J. A. B. 2 *s*
347 Manhattan ave.
Armstrong, J. B. 2 *c* Whitestone
Armstrong, J. W. 2 *s*
347 Manhattan ave.
Armstrong, M. W. † 4 *ed*
414 W. 118
Armstrong, R. F. 2 *j* Livingston
Arnold, E. B. *nm l* 500 W. 122
Arnold, F. C. *gr ed* 111 E. 168
Arnot, J. † 1 *b* Spring Valley
Arnot, M. G. † 1 *b* Spring Valley
Aronescu, L. I. 2 *s* 931 Fox
Aronovic, A. *phar* 555 E. 169
Aronovich, A. † *pl*
1225 Madison ave.
Aronsohn, H. S. *phar* 14 W. 112
Aronson, I. *ph* 10 W. 107
Aronstamm, G. C. *phar*
1501 Second ave.
Ashbrook, K. † 2 *b* Brooks
Askam, L. E. † 3 *ed* Great Neck
Aspinall, R. *ph* Madison
Aspinwall, J. F. 2 *c*
41 Astor Pl., Jersey City
Asselin, D. J. 2 *l* Livingston
Asserson, R. † 2 *b*
404 Eighth ave., Bklyn.
Asterita, M. W. 1 *m* 320 E. 26
Astrachan, M. 1 *c* 125 Maple
ave., Mariners Harbor
Astrom, W. B. 1 *s*
682 Jefferson ave., Bklyn.
Astruck, E. F. † 3 *b* 114 W. 86
Aten, C. 1 *s* 71 Gates ave., Bklyn.
Atkinson, C. † 1 *pa* 420 W. 119
Atkinson, G. *ph* 501 W. 120
Atkinson, G. 3 *s* 501 W. 120
Atkinson, L. S. † *gr ed*
196 Berkeley Pl., Bklyn.
Atkinson, W. E. 2 *l*
788 Riverside Dr.
Atwell, J. H. † *gr ed* Whittier
Atwood, E. A. *phar*
70 E. 16, Paterson
Atwood, K. C., Jr., 2 *c* 614 W. 113

Auerbach, J. G. † *pl* 40 W. 77
Auerbach, M. † 4 *ed* 2528 B'way
Augsbury, T. B. *phar* 318 W. 57
Augur, H. † 2 *b* 449 W. 123
Auslander, J. 1 *c*
668 Hopkinson ave., Bklyn.
Austin, H. W. 1 *s*
1294 Lexington ave.
Avery, B. C. † 4 *ed* 527 W. 121
Avery, M. J. † 1 *pa* 601 W. 115
Avstreich, W. M. *phar* 576 E. 143
Axelrod, H. 2 *c* 276 Riverside Dr.
Ayre, E. P. † 3 *ed* 523 W. 121
Babbott, F. L., Jr. 1 *m* 354 W. 55
Babcock, C. E. † *gr. ed* 519 W. 121
Babcock, E. H., Jr. 2 *c* 627 W. 115
Bach, A. *phar* 955 Cauldwell ave.
Bach, H. P. † 1 *pa* Whittier
Bacon, B. L. † *pl*
81 Hillcrest ave., Yonkers
Bacon, E. M. † 3 *ed* 245 W. 50
Bacon, R. M. 1 *c*
421 S. Columbus ave., Mt. Vernon
Bacon, W. C. 1 *l* Hartley
Badenes, B. † 4 *ed*
24 Casci, Forest Pk.
Bader, M. *ph* 273 S. 2, Bklyn.
Baena, L. C. 3 *s* 600 W. 140
Baer, J. *nm s*
1121 Woody Crest ave.
Baer, S. 2 *c* 505 W. 156
Baeyertz, F. P. 2 *c* Hartley
Bagg, H. J. 3 *c* 539 W. 163
Bahnsen, R. *pl* 600 W. 122
Bail, F. B. † *nm fa* 435 W. 119
Bail, F. W. *fa* 435 W. 119
Bailey, A. † 2 *b*
257 Prospect Pl., Bklyn.
Bailey, C. R. 1 *l* Livingston
Bailey, L. C. † 4 *ed* 500 W. 122
Bailly, Mrs. E. D. † 2 *b*
452 W. 149
Bain, G. B. † 3 *b* Brooks
Bainton, W. L. 2 *l*
25 Morningside ave.
Bair, F. H. *ph* 600 W. 122
Baker, B. E. † *ph* Whittier
Baker, B. E. † *gr ed* Whittier
Baker, G. *gr ed* 530 W. 123
Baker, J. C. *p* 521 Manhattan ave.
Baker, M. L. † 4 *ed*
72 Summit, Nyack
Baker, S. L. † 3 *ed* 419 W. 119
Baker, S. N. *ph* 70 Irving Pl.
Baker, W. P. 3 *m* 318 W. 57
Bakovitz, H. 3 *c* 1008 Simpson
Bakovitz, H. 1 *m* 1008 Simpson

- Balcke, O. A. † 3 *ed* Whittier
 Balderston, J. F. *nm j* Hartley
 Baldwin, B. J. *pl* Fernald
 Baldwin, E. M. *phar* 115 W. 68
 Baldwin, J. B. *nm* 537 W. 121
 Baldwin, J. S. 2 *c* Hartley
 Baldwin, M. † 4 *b*
 106 Lord ave., Bayonne
 Ball, D. S. 3 *s* 622 W. 113
 Ball, F. E. † *pl* Spuyten Duyvil
 Ballentine, A. C. 2 *s*
 152 Washington, Newark
 Ballin, D. B. 1 *c* 103 E. 110
 Ballon, E. † 1 *pa*
 1269 Harrison ave., Jersey City
 Ballon, F. L. † *ed* Whittier
 Ballou, W. A. *gr ed*
 332 Lafayette ave., Bklyn.
 Balmford, J. A. 3 *s* 509 W. 146
 Bamberger, F. E. † *ed* 419 W. 119
 Banker, G. D. † 3 *b*
 227 Van Houten ave., Passaic
 Bankert, A. G. *phar* 115 W. 68
 Banks, H. W. 1 *s*
 Sound Beach, Conn.
 Banks, J. L., Jr. 3 *l* 19 E. 92
 Banks, R. M. 2 *s* 612 W. 116
 Banta, C. † 1 *b* Beechhurst
 Banta, E. M. † 3 *ed* Whittier
 Barbarito, W. N. 1 *c* Hartley
 Barber, G. E. † *gr ed* Whittier
 Barber, M. F. † 1 *pa* 111 W. 114
 Barber, M. J. † 3 *ed*
 210 Rodney, Bklyn.
 Barberis, E. G. 1 *m*
 106-44, Corona
 Barbour, M. B. † 3 *ed* 419 W. 119
 Bard, H. O. † 3 *ed* 542 W. 147
 Bardenheuer, C. E. † 4 *ed*
 628-8, College Point
 Barenzo, J. M. *phar* 219 Mott
 Barker, F. P. 2 *l* Livingston
 Barker, P. E. 2 *c*
 36 Fairfield Rd., Yonkers
 Barker, W. C., Jr. *nm s*
 609 W. 115
 Barkin, B. *phar* 327 Madison
 Barkley, E. M. † 3 *ed*
 87 Hamilton Pl.
 Barlow, W. M. *ph*
 282 Halsey, Bklyn.
 Barnaby, C. B. † 3 *ed*
 257 Hamilton ave., N. Brighton
 Barnaby, R. S. 3 *s*
 257 Hamilton ave., N. Brighton
 Barnard, V. † *nm b*
 454 Ft. Washington ave.
 Barnard, V. G. † 1 *pa*
 454 Ft. Washington ave.
 Barnes, F. E. 1 *c* Earl
 Barnes, G. † 2 *b*
 214 Orient Way, Rutherford
 Barnes, O. C. *nm fa* 142 W. 109
 Barnett, C. I. † 3 *b* 601 W. 156
 Barnett, A. 3 *s* 139 S. 4, Bklyn.
 Barnett, C. R. 1 *l*
 1029 College ave.
 Barnett, M. † 1 *b*
 1855 Seventh ave.
 Barnum, G. E. † 4 *ed* Whittier
 Barnum, P. *fa* 434 W. 120
 Barnum, R. F. 3 *l* 616 W. 113
 Baron, J. 3 *c*
 774a Lafayette ave., Bklyn.
 Baron, J. L. 3 *c* 60 Canal
 Barone, M. A. 2 *c*
 38 Bouton, S. Norwalk
 Barr, D. S. 1 *c* 11a E. 118
 Barr, E. N. 2 *l*
 552a Macon, Bklyn.
 Barr, L. E. † *gr ed*
 106 Morningside Dr.
 Barrett, A. A. † *p* 600 W. 163
 Barrett, B. 1 *l* 627 W. 113
 Barrett, E. A. † 3 *pa*
 548 Grand ave., Englewood
 Barrett, J. B. 1 *s*
 425 West End ave.
 Barrett, T. H. 4 *s*
 123 Beech, Richmond Hill
 Barrick, J. † 4 *ed*
 243 Summit ave., Jersey City
 Barringer, A. M. † 4 *ed* Whittier
 Barringer, A. M. † 4 *ed* Whittier
 Barrow, A. E. *gr ed* Whittier
 Barrow, S. F. † *ph* 405 W. 118
 Barrus, L. W. † 3 *ed* 527 W. 121
 Barry, M. † 2 *pa*
 144 Locust, Flushing
 Barsky, E. 1 *c* 206 Hewes, Bklyn.
 Barsky, G. 1 *c* 206 Hewes, Bklyn.
 Bartel, E. S. † 2 *pa*
 76 W. 33, Bayonne
 Barth, A. S. 1 *c* 411 W. 114
 Barth, E. A. 4 *c* 411 W. 114
 Barthel, E. A. S. † 2 *b* 66 E. 93
 Bartholomew, R. † 4 *ed*
 417 W. 121
 Bartholow, B. H. 3 *c*
 114 S. 8th ave., Mt. Vernon
 Bartlett, B. H. † 3 *ed*
 106 Morningside Dr.
 Bartlett, J. H. 3d 3 *s* Hartley
 Bartlett, L. A. † 3 *ed* 430 W. 119

Bartlett, M. E. † *gr ed* Whittier
 Bartlett, M. J. † *nm pa*
 85 St. James Pl., Bklyn.
 Bartlett, W. W. *gr ed* 618 W. 135
 Barton, J. W. *pl* Livingston
 Barton, V. N. 2 *s* Cedarhurst
 Bartos, E. E. *fa* 73 W. 124
 Bartow, C. S., Jr. 2 *c* 33 W. 73
 Barts, A. A. † 3 *ed* 555 W. 151
 Baruch, S. R. † *pl*
 4 Suydam, Bklyn.
 Basford, K. † 2 *pa*
 134 Primrose ave., Mt. Vernon
 Bash, N. F. † 3 *ed* 215 W. 118
 Bassett, D. M. † *nm fa*
 501 W. 121
 Batchelder, K. M. † 3 *ed*
 611 W. 180
 Batcheler, N. † 3 *ed* Whittier
 Batchelor, O. B. 4 *j* Furnald
 Bateman, G. H. † 4 *b* 13 W. 8
 Bates, A. S. † 3 *ed*
 70 Morningside Dr.
 Bates, H. M. 1 *j* Hartley
 Bates, R. F. *pl* Furnald
 Battaglia, J. *phar*
 2203 Belmont ave.
 Battcock, G. J. *ed*
 16 Lawrence, Yonkers
 Battey, L. L. 3 *l* Livingston
 Baturin, M. 4 *c* 520 W. 122
 Bau, C. 1 *s* 501 W. 121
 Bauhan, L. H. † 3 *b*
 173 Hutton, Jersey City
 Baum, J. † *phar* 12 W. 117
 Baum, M. † 4 *ed* 130 E. 115
 Baumann, L. E. *pl*
 1272 Amsterdam ave.
 Baumeister, P. 3 *c*
 2855 Bainbridge ave.
 Bausch, H. † 1 *b* 435 W. 123
 Bautz, L. X. 1 *l* 209 W. 108
 Bawden, W. T. *gr ed* 523 W. 121
 Baxter, C. W. 2 *s*
 173 Columbia Hts., Bklyn.
 Baxter, H. 2 *l* 3115 B'way
 Baxter, J. H. *gr ed* 523 W. 122
 Bayer, H. *phar*
 2416 Putnam, Bklyn.
 Bayne, S. F. *gr ed* 3920 B'way
 Beach, J. A. † 4 *ed* 503 E. 121
 Beakes, D. E. † 4 *ed* 345 W. 57
 Beal, F. E. † *gr ed* 543 W. 123
 Beal, V. † *ph* 543 W. 123
 Beale, H. † *gr ed* 519 W. 121
 Beals, J. D., Jr. 1 *c*
 Beechmont, New Rochelle

Beam, J. 2 *s* Hartley
 Beam, L. E. † *gr ed*
 287 Fourth ave.
 Beard, J. T., Jr. 4 *s*
 369 Waverly ave., Bklyn.
 Beatty, L. R. 1 *s* 558 W. 113
 Beatty, R. L. 3 *s* Hartley
 Bebee, E. S. † 3 *ed* 503 W. 121
 Beck, E. F. W. 1 *s* 370 W. 120
 Beck, F. † 2 *b* 500 W. 122
 Beck, M. McL. † 4 *ed*
 106 Morningside Dr.
 Beck, P. A. 1 *l* 153 E. 86
 Beck, R. D. 2 *c* 158 W. 131
 Becker, A. A. *ph* 1210-40, Bklyn.
 Becker, E. † 1 *b* 255 Eighth ave.
 Becker, E. G. † 3 *b* 232 W. 137
 Becker, M. C. † 2 *pa*
 329 Park ave., Leonia
 Becker, S. M. † 4 *ed* Whittier
 Beckers, C. A. † 3 *ed*
 618 Hudson, Hoboken
 Beckett, H. C. *nm fa* Furnald
 Beckwith, A. J. 4 *c*
 91 Weirfield, Bklyn.
 Bedell, A. L. † *nm fa*
 997 Greene ave., Bklyn.
 Bedenkapp, G. R. *pl* Northport
 Bedrick, M. *phar* 466 Lenox ave.
 Beechel, E. E. † 3 *ed*
 191 Claremont ave.
 Beekman, F. L. † *pl* 141 W. 104
 Beer, M. A. *ph* 945 E. 163
 Beer, T. 2 *l* 30 W. 44
 Beers, E. E. † 3 *ed* 509 W. 121
 Beery, R. C. 3 *c* Hartley
 Beggs, M. G. † 4 *ed*
 106 Morningside Dr.
 Behm, M. L. † 2 *pa* Whittier
 Behnken, E. L. † 4 *ed*
 466-5, Bklyn.
 Behrens, E. E. † 3 *ed* Whittier
 Beidleman, F. A. 4 *c*
 585 Park Pl., Bklyn.
 Beiswanger, E. N. † 4 *ed*
 800 Riverside Dr.
 Belcher, A. W. *gr ed*
 15 Shepard ave., Newark
 Belknap, A. F. † 3 *b* 618 W. 114
 Belknap, B. H. 3 *s*
 122 Park ave., Leonia
 Belknap, M. *fa* 3 W. 8
 Bell, A. L. L. 4 *c* Englewood
 Bell, D. I. † 3 *ed* Whittier
 Bell, J. C., Jr. *pl* 30 W. 37
 Bell, S. D. 1 *m* 346 W. 57
 Bellamy, E. H. 1 *l* Furnald

- Belling, F. C. 1 c
Governor's Island
1501 President, Bklyn.
- Bellinger, W. H. 3 c
115 W. 91
- Bellows, A. C. † ed
414 W. 118
- Bellows, O. K. *phar*
115 W. 68
- Bendann, E. † *pl*
121 & Amsterdam ave.
- Bender, M. B. 4 m
25 Clendening ave., Jersey City
- Bender, R. C. 4 c
342 W. Jersey, Elizabeth
- Benedict, L. E. W. † *ph*
417 W. 120
- Benham, R. † 1 b
Cedarhurst
- Benikoff, A. 3 c
350 E. 15
- Benjamin, R. † 1 b
2030 B'way
- Bennett, C. W., Jr. 2 c
616 W. 179
- Bennett, H. D. *phar*
Claryville
- Bennett, I. M. † 3 ed
525 W. 120
- Bennett, M. † 4 ed
810 Avenue T, Bklyn.
- Bennett, M. V. V. † 3 ed
964 Greene ave., Bklyn.
- Bennett, R. J. *phar*
Claryville
- Bennett, S. † 1 b
Brooks
- Bennett, V. L. *pl*
600 W. 122
- Benowitz, H. 1 s
753 Seventh ave.
- Benson, A. W. 4 m
346 W. 57
- Benson, R. 3 s
255 W. 101
- Bentkowski, H. C. 4 c
6 N. 7, Bklyn.
- Bentley, B. M. † *gr ed*
94 Lawrence
- Bentley, B. W. *ph*
772 St. Nicholas ave.
- Berg, P. 1 s
35 W. 129
- Bergamini, H. M. 1 m
252-67, Bklyn.
- Bergen H. P. *nm fa*
Livingston
- Bergen, M. T. † 1 *pa*
Fulton, Queens
- Berger, E. † 3 b
90 E. 21, Bayonne
- Berghaus, E. † 3 b
318 Linden ave., Bklyn.
- Bergmann, C. A. O. 1 s
263 75th, Bklyn.
- Berick, M. 2 c
82 Monroe
- Berinstein, W. 2 c
562 W. 113
- Berk, W. L. 2 l
500 W. 114
- Berkey, S. E. † *ph*
Whittier
- Berkowitz, D. H. *phar*
415 W. 40
- Berkowitz, B. S. *phar*
7 Rivington
- Berkson, G. B. † *gr ed*
46 Greenwich
- Berlenbach, C. F. *fa*
1501 President, Bklyn.
- Berliner, I. M. 4 c
325 Central Pk. W.
- Berman, F. *phar*
529 Brook ave.
- Berman, F. J. † *p*
1355 Franklin ave.
- Berman, L. 3 m
24 E. 99
- Berner, F. *phar*
92 Second ave.
- Bernheim, A. L. *ph*
74 E. 79
- Bernheim, Mrs. G. B. † *Sp b*
148 W. 86
- Bernheim, S. † 3 b
129 W. 79
- Bernholz, P. † 1 b
540 W. 150
- Bernkopf, C. S. † *ph*
503 W. 121
- Bernstein, B. 3 l
162 E. B'way
- Bernstein, D. M. 2 s
8655 21st ave., Bklyn.
- Bernstein, D. R. 3 l
63 E. 117
- Bernstein, H. 2 c
601 W. 162
- Bernstein, J. S. † 3 b
Brooks
- Bernstein, L. 4 c
755 Gates ave., Bklyn.
- Bernstein, M. 1 c
755 Gates ave., Bklyn.
- Bernstein, M. J. *phar*
628 E. 6
- Bernstein, S. S. † 1 *pa*
Whittier
- Berry, S. G. 2 s
52 Walnut, Montclair
- Bersohn, R. *p*
60 E. 113
- Berson, J. 1 s
8 E. 116
- Berzon, H. 1 c
132 Union ave., N. Rochelle
- Besacon, B. E. † 3 ed
315 Traphagen, W. Hoboken
- Besser, A. W. *phar*
1769 Third ave.
- Bessey, M. A. † *ph*
64 Monroe, Bklyn.
- Best, S. † 4 ed
Palisade
- Betts, H. † 1 *pa*
Highwood
- Betts, M. † 2 *pa*
Highwood
- Beutz, C. † *gr ed*
525 W. 120
- Beveridge, A. † 3 ed
15 Audrey ave., Mt. Vernon
- Bevier, M. † 3 b
212 Berkeley Pl., Bklyn.
- Beyer, H. W. 2 s
886 Union, Bklyn.
- Bhadkamkar, P. 3 c
554 W. 114
- Bianchi, I. † 2 b
254 Park ave., Orange
- Bickley, E. B. 1 m
455 W. 34
- Bicknell, A. † 3 ed
Whittier
- Biddle, B. S. *ph*
624 Montgomery, Jersey City

Bidstrup, G. † *gr ed*
42 Jerome, Bklyn.
Bidwell, A. M. 3 *m*
1 Madison ave., Jersey City
Bidwell, E. F. † 4 *ed* 525 W. 120
Bierhoff, A. F. 2 *c* 301 W. 109
Bierman, W. 3 *c*
157 Keap, Bklyn.
Bierschenk, W. 1 *c*
668 Eastern Parkway, Bklyn.
Bietsch, E. F. † 3 *ed* 519 W. 121
Bigelow, A. B. † 4 *ed* 302 W. 121
Bigelow, M. E. † *ph* Whittier
Biggart, H. J. † 1 *pa*
50 W. Fordham Rd.
Biggart, J. R. † 4 *ed*
156 Washington ave., Bloomfield
Bijur, S. M. 3 *c* Hotel Ansonia
Bill, P. † 1 *pa* 512 W. 123
Billings, G. † 4 *pa*
151 Columbia Hts., Bklyn.
Billsborrow, R. E. 1 *s*
91 Hamilton ave., Paterson
Binder, A. A. 3 *s*
112 Glenwood ave., Leonia
Binder, A. W. *nm fa*
149 Stanton
Binderman, S. A. 3 *m*
47 St. Marks Pl.
Bingley, A. *gr ed* Dobbs Ferry
Bird, H. E., Jr. 4 *s*
141 S. Fulton ave., Mt. Vernon
Bird, J. M. *p* 306 Fenimore
Birdsley, B. T. † 1 *pa*
500 W. 121
Birkett, H. 2 *s* 540 W. 122
Birnbaum, A. M. 2 *l*
998 Bushwick ave., Bklyn.
Birnbaum, B. H. *gr ed* 345 E. 3
Birnbaum, H. 4 *ed* 775 Beck
Birnie, M. † 3 *ed*
210 W. Jersey, Elizabeth
Bischoff, H. W. 2 *s*
63 New Town Rd., Astoria
Bishop, H. C. † 3 *pa* Whittier
Bishop, V. G. † 4 *ed* 217 W. 133
Bissell, G. L. † *gr ed*
1086 Amsterdam ave.
Bissell, R. W. 4 *s* 435 W. 119
Bitterman, A. C. *fa*
104 McLean ave., Yonkers
Black, A. † *ph*
32 Morningside ave.
Black, D. M. 2 *c* Hartley
Black, E. † *ph*
1161 Amsterdam ave.

Black, T. E. 1 *j*
32 Morningside ave.
Blackly, F. F. *pl* Livingston
Blackmar, A. E., Jr. 1 *l*
202 W. 92
Blackmore, B. † *ed* Whittier
Blackwell, J. M. 4 *c* 608 W. 113
Blaisdell, A. P. † *p*
99 Claremont ave.
Blake, A. S. † 4 *ed*
80 St. James Pl., Bklyn.
Blake, L. L. *phar* 115 W. 68
Blake, M. M. † 4 *ed* Whittier
Blake, R. E. † 3 *ed* 420 W. 121
Blakey, S. † 4 *ed* 510 W. 123
Blanchard, B. F. *ph*
431 Riverside Dr.
Blanchard, D. D. 3 *s*
1818 Topping ave.
Bland, R. C. 4 *j* Hartley
Blanton, W. B. 2 *m* Furnald
Blau, J. *phar* 1721 Garfield
Blau, N. *phar* 115 W. 68
Blaustin, M. 1 *s*
29 St. Joseph's ave., Yonkers
Blaut, S. J. 4 *s* 331 E. 51
Blauvelt, H. 1 *m* 338 W. 12
Blauvelt, W. H. 3 *ed* 458 E. 185
Bleecker, A. L. 3 *s* 6 W. 91
Bleet, H. M. † 3 *b* 561 W. 163
Bleicher, M. *phar* 159 E. 104
Bleil, C. J. 2 *s* 1386 Ogden ave.
Blend, A. E. *gr ed* Glen Ridge
Blinder, W. *phar* 111 W. 115
Bliss, E. H. † *pl* Whittier
Bliss, F. W. 2 *c*
Church Lane, Scarsdale
Bliss, W. P. 2 *m*
29 N. View ave., Upper Montclair
Blitz, A. D. † *gr ed*
106 Morningside Dr.
Bliven, M. C. † 3 *ed*
262 Liberty, Bloomfield
Bloch, J. J. 2 *s* 271 W. 113
Bloch, S. † 1 *b* 501 W. 121
Block, M. 2 *s*
1161 E. 21, Bklyn.
Blodgett, E. † 4 *ed*
1046 Amsterdam ave.
Blodgett, G. † 3 *ed* 39 W. 128
Blomeier, W. H. *phar*
439 Ninth ave.
Blondel, D. M. † 2 *b*
1 Manhattan ave.
Blood, W. H. 1 *m* 437 W. 59
Bloom, H. R. † 1 *b*
79 Westminster Rd., Bklyn.

- Bloom, J. R. *p* 115 W. 114
 Blount, I. M. † 3 *b* Brooks
 Bluestone, E. M. 2 *m*
 215 E. B'way
 Blum, T. *p* 576 Fifth ave.
 Blumenthal, F. † *ed* 127 W. 112
 Blumenthal, H. B. † 2 *b*
 333 Central Park W.
 Blumenthal, M. H. 1 *c* 20 W. 101
 Furnald
 Blythe, F. R. 2 *l*
 Blythe, W. H. 2 *l*
 1161 Amsterdam ave.
 Board, V. L. *p*
 27 Grace Court, Bklyn.
 Boardman, A. I. † 3 *ed*
 515 W. 122
 Boardman, M. A. † 3 *ed* Geneseo
 Boas, E. P. 4 *m*
 230 Franklin ave., Grantwood
 Boas, H. M. † *p*
 230 Franklin ave., Grantwood
 Boaz, B. † 3 *ed*
 Horace Mann School
 Bobbé, S. S. 2 *l* 1919 Seventh ave.
 Bodler, S. L. † *ph* Whittier
 Bodwell, H. E. † *p*
 622 Belgrove Dr., Arlington
 Bodziner, J. 3 *s* 625 E. 5
 Boegehold, W. D. † 4 *b*
 120 N. Sixth ave., Mt. Vernon
 Boehlert, C. A. *phar* 115 W. 68
 Boehme, C. *phar* 536 W. 187
 Boehmke, M. *gr ed* Livingston
 Bogarte, M. B. *gr ed* 512 W. 123
 Bogle, R. F. 1 *l* Hartley
 Bohlin, H. G. 3 *s*
 Paulison ave., Ridgefield Park
 Böhm, E. M. 3 *c* 1199 Boston Rd.
 Bohm, F. † *ed* 617 W. 113
 Bohm, H. W. 1 *s* 617 W. 113
 Bokshitzky, M. E. 4 *c*
 381 Kosciusko, Bklyn.
 Boles, C. E. 2 *l* 131 Riverside Dr.
 Bolger, J. V. † 3 *b*
 1891 Madison ave.
 Boll, A. *ph* 315 Fenimore
 Boller, E. H. † 1 *pa*
 2125-86, Bklyn.
 Boman, J. S. *p*
 1113 Lexington ave.
 Bomer, J. O., Jr. 2 *l* 3100 B'way
 Bonart, C. I. 2 *s*
 440 Riverside Dr.
 Bond, O. N. † 1 *b*
 1250-43, Bklyn.
 Bond, S. O. *gr ed* 510 W. 124
 Bonfeld, M. L. 1 *m* 322 W. 58
 Bongiorno, P. 2 *c* 319 E. 48
 Bonnell, R. A. † 1 *b*
 1956 Crotona Parkway
 Bonner, G. E. † 4 *ed* 200 W. 94
 Bonney, Z. E. † 3 *ed* Whittier
 Bonton, M. I. † 4 *ed*
 106 W. Morningside Dr.
 Bonvicino, L. A. 2 *m*
 7309 Third ave., Bklyn.
 Booth, A. B. † *ph*
 39 Claremont ave.
 Booth, A. D. † 2 *pa* 104 W. 85
 Booth, F. 4 *c* 449 W. 123
 Booth, F. V. † 3 *ed* Whittier
 Boothe, S. † *ed* 400 W. 57
 Borchard, A. S. † *ph* 352 E. 124
 Borden, M. A. † 2 *b* Grantwood
 Borger, S. R. † *ed* 260 W. 139
 Borsuk, R. 3 *s* 2387 Marion ave.
 Boshart, E. W. *gr ed*
 155 Union ave., Mt. Vernon
 Bostanian, K. N. 2 *m* 311 E. 60
 Bosworth, N. B. † 4 *ed*
 420 W. 119
 Botsford, J. B. 4 *c* 550 W. 114
 Bougher, C. I. *phar*
 456 Fulton, Jamaica
 Boughton, A. C. † 4 *pa*
 514 W. 130
 Bounin, I. *phar* 66 Avenue D
 Bourne, A. O., Jr. *p* 27 W. 44
 Bousfield, C. † *nm b* Whittier
 Bouton, D. G. 1 *s*
 5704 Fourth ave.
 Bouvillian, C. A. *nm s* 610 W. 116
 Bowden, M. † 4 *ed*
 106 Morningside Dr.
 Bowden, R. H. *fa* 370 W. 120
 Bowen, B. I. † *pl* 135 E. 52
 Bowen, H. G. *nm s*
 456 Riverside Dr.
 Bowen, H. N. *ph* Hartley
 Bowen, J. *phar* 363 W. 55
 Bowes, A. M. 1 *s* 551 W. 174
 Bowes, R. E. *nm fa* 620 W. 115
 Bowers, S. W. 2 *s*
 434 Riverside Dr.
 Bowler, J. T. † *nm b*
 St. Faith's House
 115 & Amsterdam ave.
 Bowles, J. P. 1 *c*
 29 Clinton ave., Port Richmond
 Bowman, J. H. 2 *s* 422-56, Bklyn.
 Bowman, M. M. † *nm pa*
 73 Pearl, Paterson
 Boyce, P. L. 1 *l* 200 W. 99
 Boyce, W. S. *pl* Livingston

Boyd, B. B. *fa* 531 W. 113
 Boyd, P. B. † 2 *pa* 229 Nelson ave., Peekskill
 Boyd, J. S. † 4 *ed* Montvale
 Boyd, W. M. *pl* Hartley
 Boyle, C. A. 3 *s* 534 Trinity Ave.
 Boynton, M. L. † *gr ed* 466 E. 18, Bklyn.
 Brace, B. † 4 *j* 414 W. 118
 Brackett, R. G. *nm fa* 370 W. 120
 Bradbury, D. J. † *pl* 501 W. 121
 Braddock, W. H. 4 *m* 346 W. 55
 Bradford, H. J. 2 *s* Hartley
 Bradish, E. C. † 3 *ed* 106 Morningside Dr.
 Bradley, B. A. † 3 *ed* 503 W. 121
 Bradley, G. L. 4 *ed* 451 W. 166
 Bradley, L. C. 1 *s* 169 Elm ave., Mt. Vernon
 Bradley, M. N. † 4 *ed* Whittier
 Bradley, W. B. 1 *s* 169 Elm ave., Mt. Vernon
 Bradt, H. H. *nm s* 429 W. 117
 Brady, Mrs. E. † 4 *ed* 419 W. 121
 Brady, F. L. 1 *c* 160 Claremont ave.
 Brady, L. 4 *c* 94 Seventh ave.
 Brady, L. A. † 2 *pa* 417 W. 144
 Bragdon, Mrs. G. † *ph* 69 W. 36
 Bragg, E. H. 1 *s* 443 E. 4th, Mt. Vernon
 Brainard, A. H. *gr ed* Arlington
 Brainerd, B. B. † *Sp b* 274 Summit ave., Mt. Vernon
 Brainerd, H. R. 2 *c* 135 E. 30
 Braislin, W. D. 3 *c* 556 Washington ave., Bklyn.
 Braman, W. J. 3 *ed* Furnald
 Bramwell, W. M. *fa* 57 E. 91
 Brand, C. S. *pl* 514 W. 122
 Brandenburg, H. 3 *s* 1951 S. Boulevard
 Brannen, H. D. *nm l* Chelsea Hotel
 Branson, J. H. *p* 110 Morningside Dr.
 Brasted, H. S. 4 *m* 141 W. 85
 Bratton, E. † *gr ed* 537 W. 123
 Bratton, W. N. 2 *s* 536 W. 114
 Braun, F. A. † 3 *ed* 1240 Lexington ave.
 Braus, L. 2 *l* 468 Riverside Dr.
 Braus, R. N. † 3 *ed* 468 Riverside Dr.
 Braverman, B. 3 *c* 19 Eldridge
 Braverman, L. 4 *s* 19 Eldridge

Bravin, H. J. *phar* 226 E. 119
 Breakstone, R. 1 *c* 9 Suffolk
 Bream, E. S. *p* 1164 E. Jersey, Elizabeth
 Brecht, G. E. † 3 *ed* 414 W. 120
 Breckinridge, M. † 1 *b* 574 Monroe, Bklyn.
 Breitwieser, T. J. *gr ed* Furnald
 Bremer, P. E. † 1 *b* 299 E. 162
 Brennan, R. R. † 2 *pa* 59 Landscape ave., Yonkers
 Brennecke, E. 1 *c* 168 W. 100
 Brennecke, H. C. 4 *c* 168 W. 100
 Brenner, A. B. 3 *l* Livingston
 Bresel, J. K. † *p* 839 Kelly
 Brett, A. † 3 *ed* 194 Madison ave., Flushing
 Brett, A. M. † 3 *b* 611 W. 127
 Brett, E. M. † 3 *ed* 194 Madison ave., Flushing
 Brett, G. M. *p* Hartley
 Bretter, B. *phar* 63 W. 143
 Brew, M. F. † 4 *b* 28 Clarkson, Bklyn.
 Brewer, M. D. † *pl* 400 Riverside Dr.
 Brewer, R. E. † 2 *b* 151 W. 142
 Brewster, J. A. *pl* 419 W. 119
 Brez, S. C. *nm* 690 Willoughby ave., Bklyn.
 Bricker, H. C. 2 *c* 100 Ellery, Bklyn.
 Brickner, B. *gr ed* 1334 Intervale ave.
 Brickner, R. M. 1 *c* 777 West End ave.
 Bridge, S. H. † 3 *ed* 212 N. Hillside ave., Glen Ridge
 Bridges, C. B. *p* 526 W. 123
 Bridges, M. A. 2 *c* 148 W. 74
 Brieant, C. L. M. 1 *c* 633 W. 115
 Briggs, A. B. † 4 *ed* 46 Park Pl., E. Orange
 Brill, I. C. 4 *m* 744 Beck
 Brill, L. † *phar* 320 E. 5.
 Brimhall, D. R. *ph* 21 Convent ave.
 Brinkerhoff, H. T. 4 *c* 110 Monroe, Bklyn.
 Brinkley, S. R. *p* 417 W. 120
 Brister, C. M., Jr. 4 *s* 500 W. 122
 Bristol, R. M. *pl* Furnald
 Bristol, W. E. *pl* 600 W. 122
 Britebart, M. *phar* 29 Clinton
 Brittain, A. M. † *ph* 221 Sherman ave.

- Brittain, M. $\dagger 4$ *ed*
 15 Livingston ave., Yonkers
 Brittain, V. I. $\dagger 4$ *ed*
 50 Livingston ave., Yonkers
 Brittingham, A. S. \dagger *ed*
 133 E. Lincoln ave., Mt. Vernon
 Brizzolara, R. 2 *s* 331 E. 86
 Broadwin, S. 2 *s* 9 E. 107
 Brock, A. J. R. 2 *l* 207 E. 71
 Broderick, E. V. 2 *l*
 31 Vineyard ave., Yonkers
 Brodsky, L. R. $\dagger 1$ *b* 207 E. 10
 Broe, E. P. 1 *s* 214 E. 61
 Brokaw, R. V. 3 *m* 40 W. 66
 Bronsky, A. \dagger *gr ed* 434 W. 120
 Brook, C. *pl* Madison
 Brooke, M. M. \dagger *gr ed* 420 W. 121
 Brooks, E. \dagger *Sp b* Brooks
 Brooks, E. C. *gr ed* 519 W. 121
 Brooks, G. B. 3 *l*
 375 West End ave.
 Brooks, R. W. $\dagger 4$ *b* Harrison
 Brophy, F. P. 3 *s* 565 W. 113
 Brophy, W. E. 3 *s*
 443 Hawthorne ave., Yonkers
 Brothers, J. H., Jr. 4 *m* 437 W. 59
 Brotherton, H. T. U. *phar*
 241 Union ave., Peekskill
 Brous, L. 1 *c* 95 W. 119
 Brown, A. 2 *c* 45 W. 89
 Brown, A. *gr ed* 44 W. 65
 Brown, A. M. *p* 435 W. 123
 Brown, A. W. \dagger *gr ed* 430 W. 118
 Brown, B. H. *fa* 627 W. 115
 Brown, C. $\dagger 3$ *ed* 509 W. 121
 Brown, C. D. \dagger *ph*
 50 Morningside Dr.
 Brown, D. L. 1 *s*
 82 W. 5th, Bayonne
 Brown, E. G. *fa* 501 W. 120
 Brown, E. L. *pl* 524 W. 123
 Brown, E. L. $\dagger 1$ *pa* 200 W. 111
 Brown, F. J. 2 *l* 200 W. 111
 Brown, F. M. 3 *pa* 503 W. 121
 Brown, F. N. $\dagger 4$ *ed*
 9 Jackson, Bayside
 Brown, G. \dagger *pl*
 169 Albany ave., Bklyn.
 Brown, G. E. *pl* 600 W. 122
 Brown, H. E. *pl* Freeport
 Brown, H. H. 3 *l* 2087 Fifth ave.
 Brown, J. C. *gr ed* 527 W. 124
 Brown, J. E. 2 *c* 614 W. 148
 Brown, J. E. 2 *l* Livingston
 Brown, J. W. *phar*
 Port Jefferson
 Brown, K. G. $\dagger 4$ *b*
 743 Crotona Pk. N.
 Brown, L. M. *phar* 161 W. 64
 Brown, L. O. \dagger *gr ed* Whittier
 Brown, M. L. *ph* 251 W. 80
 Brown, O. $\dagger 4$ *ed* 559 W. 156
 Brown, T. G. 4 *j* Furnald
 Browne, A. G. $\dagger 3$ *b* Brooks
 Browning, G. \dagger *ph* 430 W. 119
 Browning, G. E., Jr. 1 *c*
 Bruce, B. *nm s* 605 W. 115
 Bruckbauer, G. F. *fa*
 911 Eighth ave., Bklyn.
 Brueckmann, E. C. 1 *s*
 22 White Ter., Newark
 Bruner, A. B. 2 *m* 346 W. 57
 Bryan, D. B. *gr ed* 527 W. 133
 Bryan, F. A. $\dagger 4$ *ed* Whittier
 Bryan, J. A. 1 *c* 634 W. 135
 Bryant, A. B. $\dagger 3$ *ed* 519 W. 121
 Buarque, M. \dagger *ed* Larchmont
 Buarque, P. M. 1 *s* 17 State
 Bucci, N. 2 *c*
 125 $\frac{1}{2}$ Tuers ave., Jersey City
 Buchanan, E. A. $\dagger 3$ *ed* 503 W. 121
 Buchanan, M. C. $\dagger 4$ *ed* Whittier
 Buchman, L. 1 *c*
 38 Bartlett, Bklyn.
 Buchtenkirch, G. C. *fa* 228 E. 31
 Buckley, A. $\dagger 2$ *pa* Whittier
 Buckwald, H. M. 2 *s* 110 W. 111
 Budington, E. G. *pl* 32 Nassau
 Budner, H. S. 3 *l* 8 E. 118
 Buehrer, G. C. 4 *ed*
 Buell, F. M. $\dagger 4$ *ed* Whittier
 Buermeyer, H. A. 1 *c*
 193 St. Johns Pl., Bklyn.
 Buermeyer, M. D. $\dagger 4$ *ed*
 193 St. Johns Pl., Bklyn.
 Bufford, H. B. $\dagger 1$ *b*
 25 Second Pl., Bklyn.
 Buford, C. H. 2 *l* 350 W. 120
 Bugoyne, C. E. \dagger *ed*
 53 Washington, Newark
 Bull, D. C. 2 *m* 437 W. 59
 Bull, E. M. *phar* Walkill
 Bull, P. $\dagger 3$ *ed* Whittier
 Bullen, B. C. 1 *m* 346 W. 57
 Bullock, F. W. \dagger *pl* 540 W. 122
 Bullock, W. W. *gr ed*
 Hastings-on-Hudson
 Bulow, S. I. $\dagger 3$ *b*
 2444 Lorillard Pl.
 Bumbaugh, E. $\dagger 4$ *ed* 527 W. 121
 Buncke, H. J. 3 *s* 619 W. 113
 Bungard, M. Z. 2 *l* 505 E. 135

- Bunzel, B. \dagger *pl* 300 Central Pk. W.
 Bunzl, L. C. \dagger 4 *b* 121 E. 72
 Bunzl, J. V. 2 *l* 121 E. 72
 Bunzl, W. G. 2 *s* 175 W. 72
 Buonocore, B. B. \dagger 2 *b* Brooks
 Burch, D. A. \dagger *ed* 450 W. 149
 Burchan, L. \dagger 4 *ed* 1420 Glover
 Burchell, A. V. 1 *l* 563 W. 182
 Burchell, J. A. 1 *s*
 790 Riverside Dr.
 Burd, C. G. *ph* 401 W. 118
 Burdick, M. C. \dagger 3 *ed*
 35 Hoyt, Stamford
 Burdett, M. \dagger 2 *pa* 173 Park ave.
 Burgerin, C. L. \dagger 4 *ed* Port Chester
 Burgess, I. T. 1 *l* Furnald
 Burghard, E. G. 3 *c* 1 E. 93
 Burghard, F. J. 1 *c* 1 E. 93
 Burghard, G. E. 2 *c* 1 E. 93
 Burgi, L. E. \dagger 1 *b* 905 E. 139
 Burill, E. W. *ph* Furnald
 Burke, A. \dagger *gr ed* 514 W. 122
 Burke, A. F. \dagger *ed* 420 W. 121
 Burke, E. J. \dagger 3 *ed* 414 W. 121
 Burke, H. J. *fa* 2040 Fifth ave.
 Burks, C. E. M. \dagger 4 *ed* 420 W. 121
 Burling, E. N. \dagger *gr ed*
 333 Springfield ave., Summit
 Burlingame, A. E. \dagger *pl* 424 W. 119
 Burlingham, R. 4 *m* 140 E. 38
 Burnett, A. C. *phar* 115 W. 68
 Burnett, E. F. \dagger 3 *ed* 135 W. 95
 Burnham, R. W. *gr ed*
 1801 Dorchester Rd., Bklyn.
 Burnholz, H. S. 1 *s* 455 E. Houston
 Burns, A. P. \dagger 1 *p* Brooks
 Burns, E. \dagger *p* Douglaston
 Burns, M. \dagger 3 *pa* 50 W. 19, Flushing
 Burr, F. F. *p* 149 Waller ave., White Plains
 Burr, H. C. *pl* 600 W. 122
 Burrows, B. \dagger 1 *b* 110 Penn ave., Bronxville
 Burton, A. *fa* Furnald
 Burtonshaw, I. N. \dagger 4 *ed* 180 Clinton, Bklyn.
 Burwell, L. P. \dagger 2 *pa* Whittier
 Busch, I. 1 *c* 158 Ross, Bklyn.
 Busch, L. C. V. 1 *c* 511 W. 123
 Bush, A. M. 3 *c*
 1615 Pitkin ave., Bklyn.
 Bushong, A. M. \dagger *ph* 442-9, Bklyn.
 Busick, M. \dagger 4 *ed* 320 St. Nicholas ave.
 Busse, J. \dagger *p* 423 W. 118
 Bussell, H. *phar* 124 Forsythe
 Butler, C. A. 4 *c* 351 W. 114
 Butler, C. T. 2 *m* 30 E. 72
 Butler, G. P., Jr. 2 *c* 608 W. 113
 Butler, H. F. 2 *s*
 56 North ave., New Rochelle
 Butler, M. E. \dagger *ph* 1062-84, Bklyn.
 Butler, S. S. \dagger 3 *b*
 60 Morningside Dr.
 Butterworth, G. F., Jr. 1 *l*
 627 W. 115
 Butts, M. J. \dagger *p* Whittier
 Bwins, R. L. 3 *ed* Cliffsides
 Byrne, S. L. \dagger 3 *ed* 411 W. 115
 Byron, O. 4 *s* Furnald
 Byron, O. \dagger 1 *pa*
 34 Warner ave., Jersey City
 Cabaniss, J. T. 3 *m* 359 W. 57
 Cabell, A. \dagger 1 *pa* 605 W. 112
 Cabrera, R., Jr. *phar* 30 W. 61
 Cacerow, G. A. \dagger *p* 503 W. 175
 Cadman, F. L. 1 *l* Hartley
 Cady, L. B. 4 *m* 244 Riverside Dr.
 Caffrey, E. R. \dagger *phar*
 46 Harrison, Stapleton
 Cagwin, S. M. \dagger 4 *ed* 611 W. 127
 Cahall, R. D. *pl* Furnald
 Cairol, J. *phar*
 412 Union, W. Hoboken
 Calder, E. 3 *c*
 20 Berkley Place, Montclair
 Calder, N. L. 3 *s* 618 W. 113
 Caldwell, G. A. 4 *m* 350 W. 58
 Caldwell, G. D. 1 *l* 633 W. 115
 Caldwell, H. H. *gr ed* Livingston
 Caldwell, J. Y. 1 *l* Livingston
 Caldwell, L. W. \dagger 4 *pa* 525 W. 120
 Calhoun, R. E. 3 *l* 419 W. 119
 Calkins, C. \dagger *ph* 526 W. 123
 Callahan, E. B. *gr ed* 64 Fifth ave.
 Callahan, F. A. *phar* 116 W. 84
 Callahan, H. A. 3 *l*
 215 Cumberland, Bklyn.
 Callan, H. \dagger 1 *b* 870 E. 175
 Callen, S. L. \dagger 3 *ed* 21 W. 106
 Cameron, W. S. *p* 239 W. 136
 Campbell, B. E. \dagger 3 *ed* 604 W. 125
 Campbell, D. 2 *c* 319-8th, Bklyn.
 Campbell, D. G. 4 *s* Hartley
 Campbell, H. A. 2 *s* 317 W. 80
 Campbell, I. C. \dagger 4 *pa* Whittier
 Campbell, Mrs. J. A. \dagger *ph* 520 W. 114
 Campbell, J. W. *phar* Suffern
 Campbell, Mrs. M. \dagger 3 *ed* Whittier

- Campbell, M. E. † 4 *ed* Whittier
 Campbell, N. L. † *ed* 3 W. 108
 Campbell, W. E. Jr. 1 *m*
 616 Furnald
 Campbell, V. A. 4 *ed*
 101 Clinton ave., Bklyn.
 Camper, M. P. † 3 *ed* Whittier
 Campwell, D. E. † 2 *pa* Whittier
 Canavan, P. F. 1 *s* 624 W. 114
 Cangialosi, C. *phar* 324 E. 14
 Cannella, G. *phar* 415 E. 12
 Cannon, H. † 3 *ed* Whittier
 Cannon, I. *nm fa*
 169 Miller ave., Bklyn.
 Cannon, T. L. 3 *c*
 323 West End ave.
 Cantor, I. J. 3 *ed* 240 E. 9
 Capeci, E. *phar*
 28 Willow, Port Chester
 Capeci, J. D. *phar*
 28 Willow, Port Chester
 Caples, B. J. † *ph* 540 W. 122
 Caplow, S. M. 3 *l* 67 E. 97
 Capps, J. E. *gr ed*
 Cathedral Choir School
 Capshaw, H. J. 1 *l* Furnald
 Carabillo, A. S. *phar*
 276 Ave. A
 Carey, C. L. † *nm b*
 Luddington Rd., West Orange
 Carleton, A. F. E. † 3 *ed* Whittier
 Carlson, D. W. *nm fa* 410 W. 115
 Carlstrom, C. W. 1 *s*
 85 Whitestone ave., Flushing
 Carman, M. I. † 4 *ed*
 283 Madison ave., Flushing
 Carnall, W. F. 1 *l* Furnald
 Carnelli, C. M. 3 *s* 26 E. 109
 Carner, S. 3 *s* 450 Grand
 Carp, L. 3 *m* 83 Willett
 Carpenter, L. E. † 4 *ed*
 103 Morningside ave.
 Carpenter, M. S. † 1 *b* 612 W. 112
 Carpenter, W. M. † 4 *ed*
 105 W. 118
 Carr, A. L. † 4 *ed* 591 W. 121
 Carr, K. L. † 2 *pa* Whittier
 Carr, M. † 3 *b* 831 Carroll, Bklyn.
 Carroll, J. D. 2 *s* 425 W. 118
 Carroll, J. E. † 4 *b*
 90 Morningside Dr.
 Carroll, J. J. 3 *s*
 46 First ave., N. Pelham
 Carroll, J. W. 2 *l* 619 W. 113
 Carse, E. † *ph* 205 W. 57
 Carson, E. P. *pl* 600 W. 122
 Carson, W. G. B. 4 *j* Livingston
 Carter, C. G. *nm l*
 549 Riverside Dr.
 Carter, H. † 1 *pa*
 187 Leonia ave., Leonia
 Carter, W. A. 3 *ed*
 Elsworth ave., Richmond Hill
 Carver, W. R. *pl* 438 W. 116
 Cary, L. P. *pl* 600 W. 122
 Cary, M. † 3 *ed* Whittier
 Cary, M. T. † *pl* Whittier
 Cary, M. A. † 4 *pa* 33 W. 126
 Casamajor, M. † *pl*
 372 Greene ave., Bklyn.
 Cashman, F. C. † *gr ed*
 417 W. 118
 Cassidy, J. C. 4 *s* 604 W. 114
 Castello, F. W. † 1 *pa*
 125 Clifton Pl., Bklyn.
 Castle, A. W. *gr ed* Furnald
 Castro, F. 1 *l* 549 W. 113
 Castruccio, C. 2 *l* Furnald
 Cattell, E. † *p* Brooks
 Cattell, M. *nm* Livingston
 Cattell, P. † *nm b* Brooks
 Catzen, B. 4 *c* 414 W. 113
 Cauble, L. A. † *pl* 535 W. 113
 Caudell, M. B. † 4 *ed* Whittier
 Caulfield, G. † 4 *ed* Whittier
 Caulfield, G. R. † 3 *ed*
 434 E. 57
 Cavallo, G. E. *phar*
 68 Grinnelle ave., Garfield
 Cave, M. U. † *ph* Whittier
 Caverly, C. E., Jr. 1 *m* Livingston
 Cavert, S. M. *ph* 600 W. 122
 Cavert, W. D. *ph* 600 W. 122
 Cazin, A. † *gr ed*
 11 Elston Rd., Upper Montclair
 Cecere, T. J. *phar*
 175 Bridge, Bklyn.
 Cermák, M. C. † *pl* 470 E. 69
 Chace, E. P. † 3 *ed* Whittier
 Chalmers, U. M. † 4 *ed* Whittier
 Chamberlain, J. D. 3 *j* Furnald
 Chamberlain, N. L. † 4 *ed*
 519 W. 121
 Chambers, I. S. *phar* 176 E. 123
 Chambers, K. E. † *ph*
 423 W. 117
 Chan, Y. Y. *pl* Furnald
 Chancellor, M. L. † 2 *b* Brooks
 Chandler, S. L. *pl*
 1419 St. Marks ave., Bklyn.
 Chankin, V. *ph* 1046 Hoe ave.
 Chaplin, M. F. † 3 *ed*
 65 Morningside ave.

Chapman, Dr. N. *phar*
 10 St. Andrews Pl., Yonkers
 Chapman, I. T. *gr ed* 525 W. 120
 Chapman, J. C. *gr ed* Furnald
 Chapman, W. H. 2 *m* 333 W. 58
 Chappell, E. † *ed*
 48 Westminster Rd., Bklyn.
 Chappell, J. † 3 *ed* Whittier
 Charles, J. D. *p*
 2096 Lexington ave.
 Chasan, D. *phar* 426 E. 163
 Chasan, I. *phar*
 54 Maspeth ave., Maspeth
 Chase, A. B. † *gr ed* Park Ridge
 Chase, A. W. 3 *c* 606 W. 115
 Chase, C. H. *pl*
 241 So. 6 ave., Mt. Vernon
 Chastagner, P. J. P. 1 *s*
 387 Palmer ave., Yonkers
 Chauncey, A. W. 1 *l*
 257 Henry, Bklyn.
 Chebot, N. B. *phar* 253 Grand
 Checchia, T. † *phar*
 651 Washington
 Chen, C. H. 2 *c* Furnald
 Chen, Y. 4 *ed* 501 W. 121
 Cheney, G. A. 4 *c* 633 W. 115
 Cheney, G. H. † *ph*
 4 N. 10 ave., Mt. Vernon
 Cherry, E. N. † 4 *ed*
 274 Linden ave., Bklyn.
 Chesley, E. † 3 *b* 1346 Teller ave.
 Chester, W. M. 1 *l*
 270 Riverside Dr.
 Chevret, A. C. † *ph* 430 W. 119
 Chiang, M. *gr ed* Hartley
 Chiefetz, S. † 2 *pa* 826 Kelly
 Chien, H. T. *gr ed* Hartley
 Child, M. B. † 3 *ed*
 78 Mt. Vernon, Ridgefield Park
 Ching, T. Y. *gr ed* 551 W. 69
 Chinn, C. R. 3 *ed* 5 W. 125
 Chipkin, I. S. *gr ed* 88 E. 111
 Chiu, C. *pl* Livingston
 Chow, K. C. *p* Hartley
 Choy, J. K. 2 *c* Livingston
 Christianson, E. S. † *nm fa*
 511 W. 113
 Christie, L. J. † 1 *pa*
 114 Beacon ave., Jersey City
 Christmann, L. J. 1 *c*
 2120 LaFontaine ave.
 Chrystall, M. M. *pl* 55 E. 101
 Chu, C. *pl* Hartley
 Chu, L. *p* Hartley
 Chu, V. G. *p* Hartley

Chum, Y. S. 4 *s* Furnald
 Cianciulli, C. *phar* 229 E. 14
 Cimino, C. O. *phar* Emerson
 Cirillo, M. L. *phar* 54 Prince
 Clarihew, M. † 2 *b*
 128-28, Woodcliffe
 Clark, A. E. † 4 *ed* Whittier
 Clark, A. M. † 3 *ed* 118 W. 118
 Clark, B., Jr. 2 *l*
 60 First Pl., Bklyn.
 Clark, C. E. 1 *m* 411 W. 57
 Clark, D. L. *ph* 424 W. 115
 Clark, E. B. 2 *c* 187 Keap, Bklyn.
 Clark, E. R. † *ed*
 311 Warburton ave., Yonkers
 Clark, F. J. 2 *l* 445-14, Bklyn.
 Clark, I. M. † 3 *ed* 519 W. 121
 Clark, J. B. † 4 *ed*
 Bellevue Hospital
 Clark, J. D. 4 *c* Hartley
 Clark, K. F. 3 *l*
 405 Madison, Bklyn.
 Clark, M. A. † *gr ed* Bidford
 Clark, M. S. † 3 *b*
 17 Landscape ave., Yonkers
 Clark, R. A. 2 *l* 509 W. 122
 Clark, R. M. † 2 *pa* 422 W. 119
 Clark, T. E. 2 *j* Furnald
 Clark, W. E. *ed*
 538 Maple, Richmond Hill
 Clark, W. E. *pl* 502 W. 113
 Clark, W. R. 2 *c* 627 W. 115
 Clark, W. D. 3 *c* 633 W. 115
 Clark, W. W. *pl* 600 W. 122
 Clarke, E. L. *pl* 400 W. 118
 Clarke, F. 1 *pa*
 229 Wilkinson ave., Jersey City
 Clarke, G. † 3 *ed* 528 W. 123
 Clarke, H. E. *gr ed* Bernardsville
 Clarke, P. H. 3 *m* 112 W. 73
 Clarke, R. † *pl* Lake Mahopac
 Clarke, T. M. 3 *c*
 L. I. R. R. Y. M. C. A., Long
 Island City
 Class, J. L. 4 *c* 400 W. 261
 Class, T. S. 1 *l* 30 Church
 Clauss, M. † *ph*
 1936 Benedict ave.
 Claxton, E. † 3 *ed* Whittier
 Clayton, M. † 2 *pa* Whittier
 Cleary, C. N. 4 *s* 550 W. 114
 Cleaver, W. G. *gr ed* 525 W. 120
 Clement, A. S. † 3 *ed* Whittier
 Clements, P. H. *pl* Livingston
 Cleveland, E. J. † *ph*
 90 Morningside Dr.

- Comin, R. *gr ed*
125 S. Johnson ave., Richmond Hill
- Conan, N. J. 2 *m* 66 W. 63
- Conant, T. W. 1 *s*
218 Walnut, Montclair
- Concialdi, L. *phar* Rockaway
- Conger, F. 2 *l* 82 W. 12
- Conklin, A. M. † 2 *b*
559-10, Bklyn.
- Conlin, A. B. 2 *c* Hartley
- Connally, J. F. *gr ed*
1424 E. 14, Bklyn.
- Connell, J. H., Jr. 1 *s* 429 W. 117
- Connick, L. 2 *l* 328 W. 72
- Conover, E. † 2 *b*
312 Riverside Dr.
- Constant, S. V. 1 *s* 565 W. 113
- Constantine, J. H. *nm pa*
421 Manhattan ave.
- Conti, A. C. L. J. 1 *c*
36 Highland ave., Yonkers
- Conti, A. M. 1 *s*
36 Highland ave., Yonkers
- Contreras, C. 3 *s* 564 W. 160
- Converse, G. C. *pl* 600 W. 122
- Cook, G. † *ph*
110 Morningside Dr.
- Cook, H. F. *ph*
157 Montague, Bklyn.
- Cook, J. J. 1 *s* Hartley
- Cook, M. C. † 1 *b*
1028 E. 2, Bklyn.
- Cook, M. M. † 4 *ed* 509 W. 121
- Cooke, M. N. † 4 *ed* Whittier
- Cookey, B. L. † 3 *ed* Manasquan
- Cooley, G. E. *gr ed* 609 W. 127
- Coombo, H. C. † 3 *ed*
65 Eliot ave., Yonkers
- Coombs, H. † 3 *ed* Whittier
- Coombs, L. 1 *c* 58 Morningside ave.
- Cooney, E. W. 2 *l* Larchmont
- Coons, M. M. † 3 *ed* Whittier
- Coope, G. F. 3 *s* 431 W. 117
- Cooper, F. A. † 1 *pa* Whittier
- Cooper, F. B. *p* Livingston
- Cooper, L. F. † 2 *pa*
243-74, Bklyn.
- Copeland, L. L. † *gr ed* 401 W. 118
- Coppock, H. J. *pl* 524 W. 123
- Corbett, W. H. 2 *c*
915 Forest ave.
- Cornelissen, J. 4 *s*
1825-61, Bklyn.
- Cornell, J. F. 3 *j* 459 W. 134
- Cornell, M. † 3 *ed* 414 W. 118
- Cornish, C. H. † *ed* 235 E. 18
- Cornwall, C. 2 *c* 540 W. 113
- Corrigan, T. † *p* 342 E. 176
- Corse, A. M. † 3 *pa* Whittier
- Corse, L. † *ph*
74 N. Arlington ave., E. Orange
- Corso, A. *phar* 316 W. 49
- Cortada, S. E. † 2 *pa* 612 W. 137
- Corvin, A. E. *ph*
400 Manhattan ave.
- Corwin, H. 3 *l* Hartley
- Coryell, E. † 4 *ed* 510 W. 123
- Coryell, N. G. † 4 *b* 1414 Vyse ave.
- Cosby, O. M. † 1 *pa* Whittier
- Cosgrove, J. J. *nm* 315 W. 58
- Coss, M. M. † 4 *ed* Whittier
- Costa, J. A. *phar*
291-4, Jersey City
- Cotton, S. J. † *ph*
175 Claremont ave.
- Coulter, J. H. *ph*
63 Mason, Greenwich
- Countiss, F. N. 1 *s* Hartley
- Coursey, R. T. † 3 *ed* Whittier
- Covey, G. W. 4 *m* 515 W. 184
- Cowan, J. H. 4 *c* 62 E. 130
- Cowan, W. 2 *s* 62 E. 130
- Cowen, E. A. 2 *s* 39 E. 74
- Cox, D. H. † *fa*
- Cox, E. † 4 *ed* Brooks
- Cox, G. B. *pl* 29 Vesey
- Cox, K. † 1 *pa*
473 Ellison, Paterson
- Cox, W. C. 2 *m* 295-15, Bklyn.
- Coy, G. L. † *gr ed* 418 W. 118
- Coyle, M. B. T. *ph* 457 W. 123
- Coyne, G. C. † 1 *pa*
100 N. B'way, Yonkers
- Crabbs, L. M. † 3 *ed* 620 W. 122
- Craft, LaV. R. 4 *s* 916 Kelly
- Cragg, E. *phar*
6 S. Fourth ave., Mt. Vernon
- Cragin, M. W. † 3 *ed* 10 W. 50
- Craig, V. J. † *ph* 524 W. 124
- Cramer, R. S. 1 *c* 565 W. 113
- Cramp, A. P. 3 *s*
198 Midwood, Bklyn.
- Crampton, W. D., Jr. 4 *c*
536 W. 114
- Cranch, A. R. † 3 *b*
1673-85, Bklyn.
- Crandall, A. T. *p* 34 Convent ave.
- Crandall, H. W. *pl* 502 W. 113
- Crane, A. D. † 3 *pa*
1230 Amsterdam ave.
- Crane, A. L. 1 *m*
15 Claremont ave.
- Crane, A. S. 2 *c* 225 W. 129

- Crane, M. † 4 *ed* 525 W. 120
 Cranford, W. C. *pl* 600 W. 122
 Cranor, K. † 4 *ed* 414 W. 121
 Cranshaw, I. † 4 *ed* 525 W. 120
 Cranston, G. † *gr ed* 527 W. 121
 Crapo, G. B. † 4 *pa* 420 W. 121
 Craus, M. A. 4 *j* Furnald
 Craven, J. D. 2 *c* 85 Mercer, Jersey City
 Crawford, C. † 4 *ed* 620 W. 122
 Creamer, W. A. 4 *s* 281 Winthrop, Bklyn.
 Crespi, A. R. † *gr ed* 346 Rutland Road, Bklyn.
 Crespo, J. D. 4 *ed* 164 W. 122
 Crissey, G. † 4 *ed* Whittier
 Criswell, C. F. 1 *c* 557 W. 124
 Critchlow, R. *ph* 130 North ave., New Rochelle
 Crocker, N. J. † *ph* 414 W. 121
 Cronenberg, C. W. 2 *c* 54 Mt. Vernon ave., Mt. Vernon
 Cronin, S. E. † *p* 501 W. 121
 Cronk, H. M. 1 *c* 257 W. 100
 Crook, J. B. 1 *c* 430 W. 116
 Crosby, Z. E. † 3 *ed* 504 W. 112
 Cross, E. *ph* 227 Alexander ave.
 Crouse, D. S. 1 *l* Furnald
 Croyle, H. I. *ph* 600 W. 122
 Crozier, A. L. † 4 *ed* 419 W. 121
 Cruse, B. A. 1 *l* 435 W. 117
 Crystal, B. H. *phar* 21 Morrell, Bklyn.
 Cudlipp, J. M. 1 *c* Castleton Apts., N. Brighton
 Cuevas, R. P. † *ph* 123 Lafayette ave., Bklyn.
 Culman, O. 1 *c* 476 W. 143
 Cumberland, W. W. *pl* Livingston
 Cumming, A. *pl* 550 W. 113
 Cummings, A. R. *pl* 193 Berkeley Pl., Bklyn.
 Cummings, B. R. 1 *s* 560 W. 180
 Cummings, S. *ph* 600 W. 122
 Cumming, L. J. † 3 *ed* Whittier
 Cuning, P. H. *nm l* Furnald
 Cunradi, R. H. *phar* 582 E. 138
 Cupboard, J. H. 3 *c* 420 W. 121
 Curnen, A. † 1 *b* 519 W. 143
 Curnow, D. † 1 *b* 342 Fourth Bklyn.
 Curoe, P. R. V. *ph* 467 W. 166
 Curren, C. J. 2 *l* Livingston
 Currier, G. S. 2 *c* 313 W. 102
 Curry, D. A. 2 *c* 201 W. 98
 Curry, T. M., Jr. 2 *s* 245 W. 104
 Curry, V. E. 2 *l* Hartley
 Curry, W. A. 2 *s* 201 W. 98
 Curt, W. E. 1 *c* 435 W. 119
 Curtice, E. M. † 4 *b* 54 Pine, Freeport
 Curtis, G. W. *ph* Furnald
 Curtis, J. M. 2 *pa* 61 Summit ave., Jersey City
 Curtis, N. L. † 4 *ed* 523 W. 121
 Curwen, G. B. 3 *s* Hartley
 Cushing, H. C., 3d 1 *c* 780 Park ave.
 Cushman, H. M. † *gr ed* 130 Claremont ave.
 Cushman, R. E. *pl* Livingston
 Cuthbert, H. B. *gr ed* 304 N. Broad, Newark
 Cutler, C. † 1 *pa* 414 W. 120
 Dahlbert, H. R. † *ed* Whittier
 Dale, E. A. *gr ed* Whittier
 Dale, J. E. † 4 *b* 566 Walton ave.
 Dalton, J. *nm s* 15 Toledo, Elmhurst
 Daly, R. J. 1 *c* 257 W. 116
 Damleio, W. J. 1 *m* 590 E. 169
 Danahy, J. W. 1 *j* Hartley
 Daniels, C. W. 1 *c* 400 Benedict ave., Woodhaven
 Danielson, L. C. 2 *c* 429 W. 117
 Danenberg, L. 4 *j* 336 E. 50
 Dann, O. L. 1 *l* 541 Flushing ave., Bklyn.
 Danzig, S. V. H. 3 *c* 500 W. 122
 Dappert, N. E. † 3 *ed* 419 W. 121
 Darden, W. A. *ph* Hartley
 Dargon, M., Jr. *pl* 600 W. 122
 Darlington, E. C. B. 2 *c* 627 W. 115
 Darlington, H. V. B. *pl* 175 Ninth ave.
 Darnton, M. C. † *ph* 200 W. 74
 Darr, J. W. *pl* 600 W. 122
 Darrah, G. B. *p* 435 W. 117
 Darrough, M. † 4 *ed* 512 W. 123
 Davenport, E. I. † *gr ed* 106 Morningside Dr.
 Davenport, M. C. † 1 *b* Brooks
 Davenport, R. L. 1 *l* Furnald
 Davidson, B. N. † *gr ed* Whittier
 Davidson, H. P. 1 *c* 1151 Park ave.
 Davidson, L. *phar* 855 Hunts Point ave.
 Davidson, P. E. *gr ed* 100 Cathedral Parkway
 Davies, G. † 4 *pa* Whittier
 Davies, J. H. † 2 *b* Mountain ave., Edgewater

- Davies, K. N. † *ph*
106 Morningside Dr.
- Davies, T. *pl* Hasbrouck Hts.
- Davis, B. J. *phar* 320 State, Bklyn.
- Davis, C. E. *p* 418 W. 115
- Davis, E. † *i b*
23 Van Buren, Bklyn.
- Davis, E. R. † *3 b* 66 E. 86
- Davis, J. E. *phar* Smithtown Branch
- Davis, L. H. † *i pa* Whittier
- Davis, M. † *nm b* 400 W. 118
- Davis, M. F. † *2 b* Whittier
- Davis, M. M. † *3 ed* 510 W. 124
- Davis, S. C. † *4 b* Whittier
- Davis, W. E. *i c* Millers Place
- Davis, W. H. *fa* 66 E. 86
- Davis, W. W. † *ph* Whittier
- Davisson, R. L. *2 l* 434 W. 120
- Davol, H. F. † *3 ed* 519 W. 121
- Dawkins, S. M. *pl* 500 W. 122
- Dawson, G. M. *4 c* Furnald
- Day, C. S. Jr. *i c*
113 McDonough, Bklyn.
- Day, J. C. *pl* 790 Riverside Drive
- Day, S. J. *i c*
113 McDonough, Bklyn.
- Dean, D. † *2 b*
Euclid Hall, B'way & 86
- Dean, F. L. *i s* 163 W. 92
- Dean, I. † *2 b* 141 W. 105
- Dearden, E. M. † *3 b* 125 E. 91
- Dearden, G. † *i b* 125 E. 91
- Debatin, F. M. *ph* Hartley
- De Beixedon, B. *i l*
77 Eighth ave, Bklyn.
- De Bra, A. H. *ph* 600 W. 122
- DeCaro, P. *phar* 522 E. 16
- Decker, A. M. † *pl*
417 William, E. Orange
- Decker, R. K. † *2 b*
96 Sterling Pl., Bklyn.
- Dederick, J. H. *ed*
81 Buena Vista. ave., Yonkers
- Deecke, W. † *3 ed*
398 Monroe, Bklyn.
- Deegan, J. F. *3 c*
214 Hall ave., Perth Amboy
- Deen, D. T. *nm l* 216 W. 99
- De Flon, M. † *Sp b* 430 W. 119
- De Flou, C. *nm l* 430 W. 119
- De Friece, F. W. *3 l* Livingston
- Degener, I. † *nm b* 316 W. 89
- deGolyer, C. † *3 ed* Whittier
- DeGraff, B. R. *i c* 141 W. 104
- DeGroot, I. M. † *2 pa*
73 Prescott Pl., Jersey City
- deLalla, M. *phar*
231-17, College Point
- Delehanty, T. *i c* 627 W. 115
- de Leon, J. *nm l* 420 W. 121
- de Lima, M. F. *2 s* Furnald
- Dell, B. M. *pl* 600 W. 122
- Deloria, E. C. † *3 ed* Whittier
- DeLuce, O. S. † *4 ed* 619 W. 144
- DeMaio, H. † *phar* 242 E. 108
- Demarest, A. T. *3 ed*
131 E. 21, Paterson
- Demarest, T. F. † *4 ed*
132 Prospect, Passaic
- Demarest, W. A. *3 ed*
131 E. 21, Paterson
- De Maria, A. G. † *ph* 342 E. 121
- Dement, L. W. † *4 ed*
Horace Mann School
- Demming, A. † *3 ed*
853 West End ave.
- Demuth, F. W. *4 c* 154 W. 105
- Denison, A. C. *i c*
460 Riverside Dr.
- Denney, L. C. *4 c* 157 Ninth ave.
- Dennis, C. F. *phar* Augusta
- Denniston, M. † *ph* 430 W. 119
- Depan, J. R. *phar* Kingsland
- Derby, A. H. † *ph*
72 N. Arlington ave.,
E. Orange
- Derbyshire, A. J., Jr. *2 c*
1907 Vyse ave.
- De Rosa, E. *nm fa*
182 Bay 11, Bklyn.
- Derrick, R. O. *fa* 434 W. 120
- Desmond, F. † *4 pa* Oradell
- Desnoes, P. H. *3 m* 4260 B'way
- Destres, B. S. † *i pa* 101 W. 80
- Deutsch, E. B. † *i b* 310 W. 94
- Deutsch, G. F. † *2 pa* 317 W. 88
- Deutsch, I. † *2 pa* 601 W. 115
- de Vebre, M. † *pl* 527 W. 121
- De Vecchi, P., Jr. *2 s* Furnald
- de Villalvilla, M. † *pl* 536 W. 113
- Devlin, F. B. *pl*
116 Saratoga ave., Yonkers
- Dexter, A. W. † *i pa*
110 Morningside Dr.
- Dexter, J. S. *p* 526 W. 123
- Dewar, W. *i c*
236 Halsey, Bklyn.
- Deyo, H. B. *i s* Hartley
- De Young, E. † *4 b* 449 E. 137
- Deyscher, E. H. † *4 ed*
500 W. 121

- DeZeller, M. C. † 4 *ed*
 DeZeller, M. P. † 3 *ed* 472 W. 22
 Diamond, E. 2 *j* 128 W. 118
 Dibble, R. B. *nm j* Furnald
 Dick, R. E. † 4 *ed* 527 W. 121
 Dickerson, H. † *ed* Denville
 Dickert, M. A. † 2 *pa* 4 W. 105
 Dickie, D. P. 3 *s* 777 West End ave.
 Dickie, G. W. 1 *c* Morristown
 Dickinson, M. E. † *nm pa* 114 Morningside Dr.
 Dickson, A. *ph* 52 W. 129
 Dickson, C. A. † 3 *ed* 420 W. 121
 Dickson, L. E. † 3 *ed* 52 Summit ave., Jersey City
 Dickson, M. † *gr ed* 52 W. 129
 Didcot, J. *gr ed* 250 Brooklyn ave., Bklyn.
 Diebolt, A. L. 3 *c*
 Diehl, L. † 1 *b* Creskill
 Diekmann, W. H. 2 *s* 200 W. 123
 Diercks, G. † 1 *b* 815 Summit ave., Jersey City
 Dietz, M. 1 *j* 790 Riverside Dr.
 Dikeman, A. L. † 1 *pa* 1052 Jackson ave.
 Dillay, M. † 1 *b* 42 Bentley ave., Jersey City
 Diller, H. E. † 4 *ed* 419 W. 119
 Dills, D. R. 4 *c*
 Dineen, P. A. L. 4 *m* 435 W. 34
 Dingman, N. McL. 3 *m* 359 W. 57
 Dingwall, E. E. † *gr ed* 439 W. 123
 Dinnerstein, M. 2 *c* 78 Ave. B
 Dinsmore, A. L. 1 *c* Furnald
 Dispenza, R. † *phar* 822 E. 215
 Dittmer, C. G. *pl* 600 W. 122
 Dittmer, J. C. 4 *s* 286 Park Pl., Bklyn.
 Divine, M. M. † 2 *b* 302 Carlton ave., Bklyn.
 Dixon, A. M. *phar* Butler
 Dixon, M. E. † 4 *pa* 414 W. 120
 Dixon, M. H. *phar* 104 Fourth ave.
 Dixon, M. M. 1 *s* Hartley
 Dobie, D. A., Jr. 1 *s* 545 W. 111
 Dobie, J. F. *ph* Livingston
 Dobson, D. S. *fa* 501 W. 123
 Dobson, G. G. 2 *s* 619 W. 113
 Dodd, H. *nm b* 504 E. 58
 Dodd, R. C. 3 *m* 171 Linden ave., Glen Ridge
 Dodds, W. P. 2 *m* 225 W. 69
 Dodge, D. † 3 *ed* Whittier
 Dodworth, O. H. T. *nm* 12 Stephens Court, Bklyn.
 Doherty, M. † *gr ed* 204 W. 140
 Dohm, G. C. *nm s* 420-2, Bklyn.
 Dolan, D. J. 1 *m* Bellville ave. & Gouverneur,
 Newark, N. J.
 Dolan, R. B. † *nm b* Hicksville
 Dolbeare, F. R. 2 *l* 68 W. 51
 Dold, D. N. 2 *m* Rivercrest, Astoria
 Donaldson, F. † 3 *ed* 501 W. 120
 Donegan, S. C. † *pl* 5 Henderson Pl.
 Donham, H. † *gr ed* 344 Aycrigg ave., Passaic
 Donlin, P. E. *nm* 118 W. 12
 Donnan, D. W. † 4 *ed* Whittier
 Donnelly, R. V. 3 *s* 21 W. 106
 Donnelly, W. J. *phar* Bay Shore
 Donoho, J. B. 1 *s* 137 Riverside Dr.
 Donovan, H. W. 1 *c* Hartley
 Donovan, J. J. *ph* 131 & B'way
 Donvan, W. J. *p* 1848 Bathgate ave.
 Doody, M. † 3 *b* 107 W. 82
 Dornes, J. A. 1 *c* Calamus ave., Winfield Jct.
 Dotey, A. I. *gr ed* 34 Pt. Charles Pl.
 Doty, P. M. † 3 *ed* 133 Bay, Glen Falls
 Dougherty, C. *phar* Harrison
 Dougherty, I. S. † *p* 227 E. 62
 Douglas, E. L. *ph* 609 W. 114
 Douglas, G. H. *pl* 600 W. 122
 Douglas, P. H. *pl* Furnald
 Douglass, C. Y. 4 *m* 2177 Bedford ave., Bklyn.
 Douglass, D. † 4 *ed* Whittier
 Dowling, L. 2 *s* 551 W. 170
 Downes, H. R. † 3 *b* 526 Van Cortlandt Park ave.,
 Yonkers
 Downing, M. E. † 1 *b* 164 Palisade ave., Yonkers
 Doyle, E. R. 2 *j* Hartley
 Doyle, W. L. H. 4 *s* Hartley
 Drachman, E. J. 2 *l* 128 W. 121
 Drachsler, J. *pl* 163 E. 87

Dragotta, B. *phar*
2339 Prospect ave.
Drake, W. A. 3 *l*
1192 Woodland ave.,
Plainfield
Draper, O. H. *pl* 600 W. 122
Drapkin, S. *phar*
162 DeKalb ave., Bklyn.
Dreeben, R. † 3 *ed* 104 E. 116
Dresher, H. W. *gr ed* 352 W. 124
Drevenstedt, A. † 3 *ed*
400 W. 118
Dreyer, S. 1 *c* 155 Eighth ave.
Driscoll, F. L. 2 *l* 120 W. 48
Drucker, S. 4 *s* 257 W. 44
Drullard, A. B. 3 *c*
431 Riverside Dr.
Drum, W. N. 4 *ed* Hartley
Drury, H. B. *pl* 501 W. 123
DuBois, B. † 1 *pa* Whittier
Du Bois, R. O. 3 *c* 119 E. 57
Dudley, M. C. † 2 *pa* Whittier
Duffy, A. † *ph*
519 Manhattan ave.
Dunbar, D. L. 3 *c* Dobbs Ferry
Dunbar, R. M. *pl*
534 Putnam ave., Bklyn.
Duncan, F. N. *p* Livingston
Duncan, J. D. 2 *c* 229 W. 97
Duncan, M. E. † *ph*
58 Monroe, Bklyn.
Duncan, W. M. *gr ed*
596 Jefferson ave., Elizabeth
Dunham, F. G. 2 *c*
296 Sterling Pl., Bklyn.
Dunkin, R. F. † 2 *b*
135 W. 104
Dunn, A. M. † 2 *pa* Whittier
Dunn, C. A. *nm s* 609 W. 115
Dunn, D. E. 1 *s* 616 W. 113
Dunn, D. J. *phar*
1583 Pelham Rd.
Dunn, F. W. † 3 *ed* 405 W. 118
Dunn, O. L. † 1 *b*
233 George,
New Brunswick
Dunphy, G. † 2 *b* 404 W. 149
Dupont, A. 1 *c* 1045 Lexington ave.
Dupont, A. R. *fa* 139 W. 119
Durant, W. J. *ph* 558 E. 191
Durfee, C. G. *ph*
2247 Valentine ave.
Durkan, M. C. † 3 *ed* Whittier
Durkin, W. J. 2 *c* 94 W. 162
Duror, C. A. † 4 *b* 157 W. 102
Duryea, M. S. † 3 *ed*
519 W. 121

Duschatko, A. *pl*
493 Fletcher Pl.
Dushkin, A. M. *gr ed* 71 E. 95
Dustin, G. O. L. † 3 *ed*
503 W. 121
Dutcher, M. † 3 *ed*
147-80, Bklyn.
Dvorkin, M. 1 *c* 1223 Union ave.
Dwight, M. 2 *l* 404 W. 116
Dworetzky, L. *phar* 246 W. 38
Dworkin, S. *phar* 56 E. 104
Dwyer, M. A. † 1 *b* 456 W. 153
Dwyer, M. K. 2 *pa*
343 Summit ave., Jersey City
Dwyer, W. W. 3 *c*
1225 Madison ave.
Dwyn, H. E. † 4 *ed* 456 W. 153
Dyer, H. T. *nm s*
30 W. Putnam ave.,
Greenwich
Dyer, W. C. *gr ed* 214 W. 121
Earle, D. † 3 *b*
Hastings-on-Hudson
Earle, W. F. 3 *j* Fernald
Easterling, A. † 3 *ed* Whittier
Easton, E. R. 3 *m* 437 W. 59
Eaton, M. P. † *ph*
14 Morningside ave.
Ebeling, W. B. 4 *m*
56 Windsor Pl., Bklyn.
Ebert, J. F. *pl* Hartley
Eckelberry, M. † 2 *pa*
506 W. 122
Eckles, C. A. 1 *l* 627 W. 113
Eckley, H. J. 1 *c*
Beechmont Pk., N. Rochelle
Eckstein, A. D. *phar*
64 Hamilton ave., Passaic
Eddy, R. † 4 *ed* Whittier
Edebohls, F. E. 3 *s* 331 W. 101
Edgerton, E. J. *gr ed*
601 W. 185
Edgerton, R. † 4 *ed* Whittier
Edinger, E. H. 2 *c*
544 Jackson ave., Jersey City
Edman, I. 1 *j* 416 W. 122
Edmundson, R. B. † 1 *b*
616 W. 116
Edsall, M. W. † 4 *ed* Whittier
Edwards, B. B. 4 *m* 437 W. 59
Edwards, C. B. 4 *j*
88 Morningside Dr.
Edwards, F. T. 3 *c* Grace Chapel
Edwards, G. W. *pl* Hartsdale
Edwards, S. C. † *gr ed*
Metuchen

- Efros, I. I. *ph* 85 E. 99
 Egan, E. † 1 *b* 410 St. Nicholas ave.
 Egbert, L. D. 4 *c* 425 W. 146
 Egan, J. T. *fa* 431 W. 117
 Eggers, C. M. † 4 *ed* Whittier
 Ehlers, J. D. † 3 *ed* 1729 Amsterdam ave.
 Ehrenreich, J. D. 3 *ed* 69 E. 101
 Ehrlich, A. *phar* 216 E. 10
 Ehrlich, D. E. 2 *c* 529-8, Bklyn.
 Ehrlich, J. 4 *s* 1281 Third ave.
 Ehrman, S. L. *nm l* Livingston
 Ehrman, S. W. *gr ed* 510 W. 124
 Eichacker, E. G. *phar* 716 Seneca ave., Bklyn.
 Eichenberg, M. A. 3 *s* Fernald
 Eichhorn, L. M. 4 *m* 444 W. 167
 Eichrodt, C. W. 4 *s* 627 W. 113
 Eisenberg, I. *pl* 5021 Third ave., Bklyn.
 Eisner, M. N. 3 *c* 166 E. 107
 Eklund, E. G. *gr ed* 17 Madison ave., Jersey City
 Eklund, H. I. M. 3 *ed* 525 W. 123
 Elders, F. R. *p* Livingston
 Elder, J. † *ph* 166 Hamilton ave., Paterson
 Elder, R. D. 2 *l* Livingston
 Elias, N. M. 3 *s* 423 E. 158
 Elken, C. L. *nm l* Hartley
 Ellenbogen, L. K. 3 *ed* 755 Driggs ave., Bklyn.
 Ellinger, L. J. 3 *c* 19 E. 61
 Ellington, A. J. 3 *m* 359 W. 57
 Ellington, L. B. † *gr ed* Whittier
 Ellingwood, A. R. *pl* 3135 B'way
 Elliott, A. C., Jr. 1 *s* 86 Hawthorne Pl., Montclair
 Elliott, C. H. *gr ed* 414 W. 121
 Elliott, L. C. † 4 *ed* 28 Cottage, S. Orange
 Ellis, A. E. † 1 *pa* 50 Florence ave., Irvington
 Ellis, B. *ph* Whittier
 Ellis, M. A. † *ed* 503 W. 121
 Ellis, M. K. † *ed* Whittier
 Ellis, R. † 1 *b* 1853 Madison ave.
 Elmer, P. R. 1 *c* 417 W. 118
 Elsasser, H. W. 4 *s* 302 W. 109
 Elstein, C. 3 *c* 441 Sutter ave., Bklyn.
 Eltz, G. J., Jr. 2 *s* 441 W. 47
 Elwyn, A. 3 *c* Museum of Nat. Hist.
 Elwyn, B. *pl* 23 E. 109
 Ely, G. W., 2d 1 *c* 829 West End ave.
 Emanuel M. *phar* 59 Avenue D
 Embrey, M. C. † 3 *ed* 419 W. 119
 Embry, C. S. *phar* 249 South, Stamford
 Embury, D. A. 1 *l* 123 E. 92
 Emerick, B. I. 2 *c* 604 W. 114
 Emerson, E. C. † 2 *pa* 65 E. 52
 Emerson, R. N. † *pl* 135 E. 59
 Emery, E. L. † 4 *ed* 523 W. 122
 Emin, A. *pl* 401 W. 118
 Emmerich, W. 1 *c* 201 W. 117
 Emmett, H. F. *phar* 161 W. 64
 Emmons, M. † *ph* 21 W. 73
 Enders, H. C. *p* Cooper Union
 Endly J. † *ed* Whittier
 Engel, E. R. *ph* 598 Marcy ave., Bklyn.
 Engel, M. *phar* 188 Boerum, Bklyn.
 Engel, S. † 3 *b* 524-44, Bklyn.
 Engel, S. 2 *c* 2085 Tiebout ave.
 Englander, J. 4 *j* 731 Amsterdam ave.
 Engler, M. L. † 3 *b* 2293 Sedgwick ave.
 English, H. † *ph* Plaza Hotel
 Entelmann, M. † 2 *pa* 333 Alexander ave.
 Entriken, F. K. † *gr ed* 414 W. 118
 Epstean, E. † 2 *pa* 611 W. 114
 Epstein, M. L. *phar* 1356 Washington ave.
 Epstein, M. L. *ph* 1173-50, Bklyn.
 Erdman, A. B. † 3 *ed* Whittier
 Erdofy, F. V. † *ph* 981 Fox
 Ericsson, E. A., Jr. 1 *c* 108 N. Main, Port Chester
 Erikson, E. J. † 2 *pa* 1547 S. Boulevard
 Ernst, H. 2 *c* 174 Central ave., E. Orange
 Erpf-Lefkovics, C. E. 2 *l* 301 E. 10
 Erskine, R. † 2 *b* 609 W. 115
 Erwin, A. B. † 4 *ed* Whittier
 Erwin, E. J. *ph* Livingston
 Escobar, P. J. 2 *c* 619 W. 113
 Eskey, C. L. 1 *j* Hartley
 Esperson, G. E. *phar* 11 Montague Ter., Bklyn.
 Espey, J. M. *gr ed* 550 W. 126

Esser, A. E. 3 s	618 W. 113	Farrell, H. W. † 4 ed	70 W. 95
Ettenberg, G. J. <i>phar</i>	304 Rivington	Farrell, L. † 3 ed	Whittier
Ettinger, J. E. <i>phar</i>	516 Morris ave.	Farrell, M. D. † 2 b	443 W. 43
Evans, A. C. † 3 ed	503 W. 121	Farrell, R. F. <i>fa</i>	Livingston
Evans, B. † 4 ed	525 W. 120	Farwell, E. L. † 3 ed	3099 B'way
Evans, E. † <i>ph</i>	411 W. 114	Fasano, E. <i>phar</i>	47 Storms ave., Jersey City
Evans, E. Jr. <i>p</i>	30 W. 134	Fay, H. † ed	170 W. 85
Evans, F. † <i>gr ed</i>	Whittier	Fay, M. J. 3 l	143 Hawthorne ave., Yonkers
Evans, H. 2 l	421 W. 118	Fay, T. Y. 3 c	Hartley
Evans, J. E. <i>ph</i>	504 W. 131	Fearn, H. O. 2 s	Furnald
Evans, J. F. 1 l	178 Vreeland ave., Paterson	Federman, S. 4 s	500 W. 114
Evans, J. S. <i>nm s</i>	130 6th ave., Pelham	Fee, J. A. 3 l	Livingston
Evans, M. A. † 4 ed	420 W. 121	Feeney, A. E. 2 c	153 E. 29
Evans, M. B. † 1 <i>pa</i>	Whittier	Feigin, S. <i>phar</i>	419 E. 6
Evans, R. D. † 3 b	3089 B'way	Fein, J. 3 c	236 Christopher ave., Bklyn.
Evans, S. G. † <i>gr ed</i>	244 E. 86	Feinberg, C. 3 c	310 E. 79
Evans, W. V. <i>p</i>	Mohegan	Feinberg, H. <i>phar</i>	17 Bayard
Evanson, O. L. <i>p</i>	317 W. 114	Feineman, J. <i>phar</i>	32 Scammell
Evens, L. W. 2 c	196 Vernon ave., Bklyn.	Feinsod, E. 3 l	60 Eldridge
Everett, R. 3 j	459 E. 134	Feldman, L. 2 s	1848 Second ave.
Everson, A. † 3 ed	Whittier	Feldman, P. <i>phar</i>	444 Howard ave., Bklyn.
Everson, D. R. 2 c	131 W. 71	Feldstein, B. <i>phar</i>	736 Second ave.
Everson, R. K. 1 c	131 W. 71	Feleky, A. † <i>ph</i>	508 W. 114
Ewing, E. C. † <i>ph</i>	415 W. 118	Felix, P. A. † 2 b	471 Park ave.
Exstein, L. R. † 2 b	500 W. 122	Felker, P. M. 2 l	Livingston
Eyoub, D. 3 s	Furnald	Fellows, A. N. † 3 ed	523 W. 122
Ezekels, J. † <i>gr ed</i>	523 W. 121	Felsen, J. 3 m	492 W. 136
Faber, M. A. † 3 ed	92 Mercer ave., Plainfield	Feltus, L. S. <i>phar</i>	113 W. 64
Failla, G. 3 s	350 E. 33	Fenn, I. H. <i>p</i>	323 Vernon ave., Bklyn.
Fair, E. † 3 ed	541 W. 123	Fenton, W. R. 4 ed	Hartley
Fairbairn, R. A. 4 s	331 W. 113	Feraca, J. S. <i>phar</i>	215 E. 107
Fairchild, H. N. 1 c	Hartley	Ferber, J. 3 c	47 Rutgers
Fairfield, M. B. † 3 ed	153 Fourth ave., E. Orange	Ferber, S. <i>phar</i>	1148 Clay ave.
Fairchild, R. F. † 3 ed	191 Claremont ave.	Ferebee, S. H. 1 c	Furnald
Faith, M. † 1 b	1239 Olmstead ave.	Ferger, H. R. <i>gr ed</i>	530 W. 122
Fajans, C. R. † 2 b	408 W. 130	Ferguson, J. † 4 b	69 Clinton ave., Jamaica
Fales, D. C. 3 l	105 E. 72	Ferguson, J. D. <i>ph</i>	Plainfield
Falk, E. A. 1 l	151 E. 60	Ferguson, L. H. 1 m	310 W. 56
Falk, M. <i>pl</i>	215 Chester, Bklyn.	Ferguson, L. W. † 4 ed	Whittier
Falknor, C. T. <i>gr ed</i>	525 W. 120	Fern, I. W. 4 ed	277 Pennsylvania ave., Bklyn.
Fansher, O. † 4 ed	Whittier	Fern, S. S. 2 c	10-1, Elizabeth
Farber, D. F. † <i>gr ed</i>	Whittier	Fernandez, G. L. † <i>ph</i>	600 W. 114
Faries, J. C. <i>pl</i>	430 W. 118	Fernandez, M. L. † <i>gr ed</i>	Whittier
Farnum, W. B. 1 m	150 E. 150	Fernstrom, T. † 2 b	665 Carroll, Bklyn.
Farquhar, G. N. <i>fa</i>	611 W. 111	Ferris, D. B. <i>fa</i>	429 W. 117
Farr, B. H. <i>gr ed</i>	West Orange	Ferris, H. D. 3 ed	Englewood
Farrar, G. † <i>ph</i>	414 W. 121	Ferro, E. <i>phar</i>	307 E. 74
Farrell, G. † 2 b	443 W. 43	Ferry, I. G. † 1 <i>pa</i>	Whittier
		Ferry, R. M. 2 m	960 Park ave.

- Fezandie, D. † 2 b 165 E. 66
 Fichandler, A. *gr ed*
 1072 Park Place, Bklyn.
 Fichter, W. L. 4 c 17 W. 100
 Fichtorn, E. E. † 3 *ed* 500 W. 122
 Fickel, G. G. † 4 *ed* 419 W. 121
 Ficken, J. F. 1 c Highland Falls
 Field, A. M. † *gr ed*
 1105 Amsterdam ave.
 Field, M. C. 2 m 158 Hicks, Bklyn.
 Field, W. H. 1 m 224 Henry, Bklyn.
 Figuet, R. M. † *ph* Tarrytown
 Fike, T. R. V. 2 l 152 W. 118
 Fillmore, H. M. † 1 *pa* 239 W. 134
 Finck, E. M. *ph*
 312 Chestnut, Arlington
 Findley, M. L. † *ed* 500 W. 123
 Fine, N. *pl*
 236 Christopher ave., Bklyn.
 Finello, R. F. *phar*
 479 Jersey ave., Jersey City
 Finger, H. M. † 1 *pa* Whittier
 Fink, A. H. † *ph*
 522 Graham, Bklyn.
 Fink, B. † 3 b
 40 De Kalb ave., White Plains
 Fink, E. H. 3 c
 40 DeKalb ave., White Plains
 Finkel, H. 1 s
 117 Gates ave., Jersey City
 Finkel, O. G. 1 c
 510 Amsterdam ave:
 Finkel, P. 1 c
 936 Sutter ave., Bklyn.
 Finkelstein, W. 1 m 26 E. 109
 Finlayson, F. L. *fa* 102 W. 84
 Finlayson, J. G. † 4 *ed*
 1 Merrick Rd., Rockville Centre
 Finley, A. B. † 4 *ed* 419 W. 119
 Finney, E. B. † 3 *ed*
 207 N. 6, Newark
 Fiorentino, P. J. *phar* 343 E. 11
 Fisbeck, F. C. † 3 *ed*
 Ridgefield Park
 Fischer, E. L. † 2 b 229 W. 97
 Fischer, H. S. 2 c
 155 Hopkins, Bklyn.
 Fischer, R. M. † 2 *pa*
 37 Hamilton, Paterson
 Fish, J. B. *p* 883 Freeman
 Fishback, E. H. 3 *ed* 420 W. 119
 Fishbein, D. † 1 b
 959 Prospect ave.
 Fisher, D. 1 s
 672 St. Nicholas ave.
 Fisher, G. † 4 *ed* Whittier
 Fisher, G. M. *pl* 165 Audubon ave.
 Fisher, H. J. 1 c 515 W. 182
 Fisher, H. L. 4 c Hartley
 Fisher, K. A. † 1 b
 1978 Crotona ave.
 Fisher, L. A. † *ph* 419 W. 118
 Fisher, Mrs. N. H. † 1 *pa*
 99 Claremont ave.
 Fisher, S. 4 s Hartley
 Fishkin, J. 3 *ed* 122-2
 Fisk, S. E. † *gr ed* Whittier
 Fiske, P. B. 2 m 318 W. 57
 Fitch, D. † 4 b
 44 Woolsey, Astoria
 Fitch, E. A. † 1 *pa*
 278 Monroe, Bklyn.
 Fitts, J. T. *gr ed*
 Evergreen Place, Ridgewood
 Fleck, J. *phar* 1285 Third ave.
 Fleer, F. A. W. † 3 b
 301 W. Lincoln ave.,
 Mt. Vernon
 Flegal, M. E. † 4 *ed* Whittier
 Fleming, E. J. † *pl* 544 W. 157
 Fleming, M. † 1 *pa* 503 W. 121
 Flenniken, M. A. † *pl* 135 E. 52
 Fletcher, F. T. *phar* 115 W. 68
 Flett, R. L. *phar*
 Atlantic Highlands
 Flora, M. † 1 b Brooks
 Florian, E. A. *pl* 435 W. 119
 Flowers, H. L. 2 c
 10 Pinehurst ave.
 Flowers, M. L. † 1 *pa*
 49 Claremont ave.
 Floyd, C. H. *pl* 41 W. 11
 Flynn, K. 2 s 176 W. 87
 Flynn, M. H. † 3 *ed* Whittier
 Flynt, G. C. 3 *ed* Little Falls
 Foerster, W. F. L. 3 c
 926 Madison ave.
 Fogg, W. G. 2 c 1388 Teller ave.
 Folkoff, R. O. 1 s
 619 Nostrand ave., Bklyn.
 Folwell, E. A. † *ph* 505 W. 121
 Foote, J. P. *pl*
 358 Lincoln ave., Bklyn.
 Foote, R. B. B. *ph*
 157 Montague, Bklyn.
 Forbes, E. S. † 1 *pa* 500 W. 122
 Forbes, G. 4 c 8 W. 56
 Forman, J. *phar* 312 Henry
 Forshen, H. E. † 3 *ed*
 1710 Avenue H, Bklyn.

Forster, W. W. *fa*
248 Van Cortland Pk. ave.,
Yonkers
Forsythe, R. S. *ph* Livingston
Fortuine, S. T. 2 *m* 359 W. 55
Fosdick, Mrs. W. F. † *Sp b*
Prince George Hotel
Foster, H. C. L. 3 *c* 500 W. 122
Foster, H. W. † *ph* 501 W. 121
Foster, J. T. 4 *s*
107 Duncan ave., Jersey City
Foster, R. K. † *pl* 417 W. 118
Foulk, T. B. 3 *l* Livingston
Fowler, A. M. † 1 *b* Brooks
Fowler, D. F. 2 *l*
440 Riverside Dr.
Fox, A. C. † 2 *b*
33 Bowne ave., Winfield Jct.
Fox, A. S. † 4 *ed* 505 W. 112
Fox, D. R. 1 *c* 504 W. 151
Fox, E. B., Jr. 2 *c*
2567 Sedgwick ave.
Fox, J. † 1 *b* Brooks
Fox, K. N. † 2 *b* 505 W. 112
Fox, L. † 4 *b* 222 Riverside Dr.
Fox, W. V. 4 *s* 20, Flushing
Frame, E. L. † 3 *ed* Whittier
Frame, R. M. † *gr ed*
27 S. 13th ave., Mt. Vernon
Franceschi, A. *phar* 115 W. 68
Franceschi, D. *phar*
1815 Seventh ave.
Francis, E. † 4 *ed* 540 W. 122
Francis, L. R. 2 *c* 172 W. 141
Francis, S. C. † *pl* Cranford
Frank, E. H. † 4 *ed* 138 W. 78
Frank, G. 3 *ed*
100 Thirteenth ave., Newark
Frank, J. † *p* 525 W. 175
Frank, M. † 1 *pa* 318 W. 22
Frank, R. † 4 *ed* 324 E. 79
Frank, V. P. 2 *l* 1884 Second ave.
Frank, E. E. † 4 *ed* Bound Brook
Frankel, S. 3 *s* 1923 Daly ave.
Frankforter, E. † 2 *pa*
1045 Clay ave.
Franklin, A. D. † 2 *b*
39 Claremont ave.
Franklin, A. M. † *ph* 420 W. 119
Franklin, E. T. *gr ed* 3129 B'way
Franklin, K. M. † 3 *ed*
38 Sanford ave., Flushing
Franklin, L. *phar* 100 Henry
Franklin, R. D. 2 *c* Hartley
Fraser, D. E. † 2 *b*
3 Willow Place, Yonkers

Fraser, F. L. *ph*
843 Bloomfield, Hoboken
Frawley, F. A. *phar* 75 W. 68
Freedman, I. 2 *c* Hartley
Freedman, L. *ph* 42 W. 116
Freeman, H. W. † 4 *ed* Glen Ridge
Freehof, M. E. *fa* Livingston
Freeman, R. H. 1 *l* Livingston
Freese, M. † 1 *b* 9 W. 81
Frellsen, R. F. *nm s* 509 W. 122
French, C. T. A. *pl* 195 W. 134
French, E. B. † *gr ed* 503 W. 121
French, H. J. 3 *s* 252 W. 105
French, L. H. † 3 *ed* Whittier
Frenzel, A. † 1 *b*
Hillside ave., Nyack
Frerichs, H. *pl*
418 St. Nicholas ave.
Freudenfels, E. 3 *c* 142 E. 83
Freund, G. L. 1 *s*
1637 Bathgate ave.
Freund, H. H. 4 *m* 311 W. 81
Frey, W. G., Jr. 2 *c* 558 W. 113
Freyre, F., Jr. *nm l* 237 W. 107
Fried, R. † *phar* 1400 Second ave.
Friedberg, M. 1 *s* 56 Broome
Friedlieb, J. *phar* Arverne
Friedman, A. 1 *s* 334 E. 15
Friedman, B. † *ph* 238 E. 71
Friedman, H. † 3 *b* 18 E. 92
Friedman, L. † 1 *b*
101 Van Buren, Bklyn.
Friedman, R. *phar*
382 Hamburg ave., Bklyn.
Friedman, W. 3 *m* 7 Ave. B
Friedman, W. 4 *s* 169 W. 64
Friedmann, J. M. 2 *s* 238 W. 102
Friedrich, C. H. S. 4 *c* 335 E. 52
Friedrich, P. E. 3 *s*
2400 Bathgate ave.
Friend, E. V. † *p* 62 W. 124
Fries, C. † 3 *b* 9 W. 82
Fries, V. E. *ph*
272 Chestnut, Nutley
Frisbie, D. M. 2 *j* 37 W. 58
Frisch, E. *ph*
40 Neilson ave., Far Rockaway
Frischia, J. P. *phar* 496 W. B'way
Froelich, C. † 3 *b*
436 Throop ave., Bklyn.
Frohwein, O. J. *phar*
1379 Lexington ave.
Frommer, S. A. B. 3 *j* 113 E. 77
Frost, B. R. 3 *l* Livingston
Frost, C. † *ph* 401 W. 118
Frost, E. E. † *ed*
27 Washington, E. Orange

- Fryer, L. *phar* 413 W. 41
 Fuhrer, O. A. 3 s 337 E. 94
 Fujita, K. *pl* 200 W. 123
 Fuller, A. † 3 b
 150 Palisade ave., Jersey City
 Fuller, D. MacT. 1 m
 252 Lexington ave.
 Fullgraff, M. A. † 3 ed
 65 E. Tremont ave.
 Fulton, J. L. † 1 *pa* Whittier
 Funke, C. A. B. 2 s 160 W. 142
 Furia, J. J. 1 c 912 Freeman
 Furlong, W. R. *nm s* 3100 B'way
 Furniss, C. C. 4 m
 181 & Northern ave.
 Furstenthal, H. C. 4 s 18 E. 58
 Fusfeld, I. S. 3 c 106 Gerry, Bklyn.
- Gabriel, J. C. 2 s Hartley
 Gachot, C. A. J., Jr. 1 s 137 E. 73
 Gainsborg, E. C. 1 s
 981 Woody Crest ave.
 Galateria, A. † *phar* 82 Chrystie
 Galbraith, L. † 2 *pa* Whittier
 Gale, E. H. *nm l* 414 W. 118
 Gale, M. E. † 3 ed 438 W. 116
 Gale, W. D. 1 *pa* 348 W. 116
 Gallagher, F. J. *nm s*
 524 Riverside Dr.
 Gallo, V. A. *phar* 311 E. 60
 Galt, J. M. 3 c 503 W. 121
 Galt, S. C. † *pl* Whittier
 Galt, S. D. † *p* Whittier
 Gamba, M. *fa* 237 W. 107
 Gampert, L. 2 s 2 E. 127
 Garabedian, H. L. *pl* 505 W. 124
 Garabedian, R. *phar* 432 E. 14
 Gardiner, C. L. † 4 ed 10 W. 103
 Gardner, E. M. 3 s
 464 Greene ave., Bklyn.
 Gardner, F. S. 4 s
 464 Greene ave., Bklyn.
 Gardner, S. O. † 3 ed
 191 Claremont ave.
 Gardner, W. H. P. 1 s 991 E. 167
 Garfunkel, L. 1 c 2 E. 120
 Garlick, E. S. † 3 ed
 156 Liberty, Paterson
 Garlock, E. H. † *gr ed*
 329 Park ave., Leonia
 Garman, A. D. 1 c 540 W. 113
 Garnjost, W. T. S. *fa*
 84 High, Yonkers
 Garolem, H. 1 s 115 Norfolk
 Garrettson, K. † *p* 73 W. 124
 Garrett, H. L. † 3 ed 501 W. 120
 Garrett, J. † 3 ed Whittier
- Garrett, P. W. *pl* Livingston
 Garrison, M. † 4 ed 509 W. 122
 Garrison, W. L. 3 s 520 W. 114
 Garry, L. S. 4 c 869 Elsmere Pl.
 Garth, T. R. *ph* 314 South, Jamaica
 Garver, F. M. *gr ed* Leonia
 Garwood, L. E. *pl*
 33 Church, Nutley
 Gaston, G. H., Jr. 1 l 79 & B'way
 Gately, T. J. 1 s 125 E. 54
 Gates, F. W. † 4 ed
 222 Percy, Flushing
 Gates, M. N. 1 l 161 Ave. A
 Gatje, F. C. 1 s
 368 Park Pl., Bklyn.
- Gauder, C. *nm fa*
 183 Berkeley Pl., Bklyn.
- Gaul, M. E. † 2 *pa* Whittier
 Gavin, F. *ph* Chelsea Sq.
 Gayer, H. W. 1 m 501 W. 121
 Gaynor, C. A. F. 1 c 151 W. 88
 Geary, A. N. 1 l Furnald
 Gedney, A. H. 1 s Mamaroneck
 Geer, C. T. † 1 b 60 W. 84
 Geer, H. † *ph* 50 Pineapple, Bklyn.
 Geffen, M. M. 2 j 1034 Hoe ave.
 Geib, A. P. 1 c 358-60, Bklyn.
 Geib, J. R. *pl* University Hts.
 Geiger, B. *phar* 115 W. 68
 Geiger, H. A. W. *phar*
 842 Hewett Pl.
- Geiger, W. J. 1 c Sayville
 Gelbhaus, F. H. 1 c
 336 6th ave., Bklyn.
 Gelbtuch, H. B. *p* 309 E. 91
 Gelrud, H. A. *phar*
 23 Jones, Newark
- Gentry, A. H. *fa* 537 W. 123
 Gentzsch, L. N. † 2 *pa* Leonia
 George, A. L. 3 l Livingston
 George, H. L. 3 s 611 W. 141
 Geraty, C. † 3 b Brooks
 Geraty, T. J. 1 c 49 W. 130
 Gersch, E. 1 s 982 Jackson ave.
 Gershon, V. 4 s 243 E. B'way
 Gerson, B. F. 4 c 616 W. 114
 Gerstein, S. R. 3 l
 468 Monroe, Bklyn.
- Gerstle, C. † 4 ed 330 W. 95
 Gertz, M. 2 s 47 Puntine, Jamaica
 Gesswein, E. 3 ed
 18 S. Burnett, E. Orange
- Getman, A. A. *p* Hartley
 Getzov, S. 2 s 862 Jennings
 Ghirardi, F. O. *phar* 146 Third ave.
 Ghiselin, S. B. M. *gr ed*
 525 W. 210

Gianella, A. † 2 *b* 410-7, Bklyn.
 Gibbons, W. A. *p* 200 W. 109
 Gibbs, B. F. 3 *ed*
 90 Eagle, Fredonia
 Giben, P. L. 2 *l* Furnald
 Gibson, A. K. † 2 *pa* Whittier
 Gibson, A. W. 1 *c* 161 W. 81
 Gibson, J. S. 1 *l* Furnald
 Giden, A. A. 2 *l* 89 Pitt
 Gifford, G. I. † 4 *ed* 420 W. 121
 Gilbert, E. † 1 *b*
 95 Greenwood ave., E. Orange
 Gilbert, F. B. 4 *s*
 17 Cypress ave., Flushing
 Gilbert, K. † 4 *ed* 415 W. 118
 Gilbert, K. † 4 *ed* 415 W. 118
 Gilbert, R. † *p*
 1086 Amsterdam ave.
 Gilcreest, J. E. † 2 *pa* Whittier
 Gildersleeve, N. B. *ph*
 37 Downing, Bklyn.
 Gildner, L. M. † *ph* 310 W. 86
 Gill, D. S. 1 *c* 404 W. 116
 Gilleaudeau, H. † 3 *b*
 Mamaroneck
 Gillelen, W., Jr. 2 *l* 521 W. 112
 Gillespie, J. P. *pl*
 490 Riverside Dr.
 Gillet, H. † 3 *ed* Whittier
 Gillett, G. P. † 3 *ed* 430 W. 119
 Gillett, H. M. † 3 *ed* 525 W. 120
 Gillett, L. H. † 4 *ed*
 160 Claremont ave.
 Gillette, C. E. † *gr ed*
 Camden, Hackensack
 Gilliar, R. *phar*
 Great Neck Station
 Gilliland, F. K. † 4 *ed* Whittier
 Gilman, C. 2 *c* Hartley
 Gilman, S. † *phar* 206 Clinton
 Gilmore, D. P. *ph* 430 W. 118
 Gilmore, S. L. 1 *c* 76 W. 105
 Giltner, E. E. † *pl* 418 W. 118
 Ginsberg, I. 3 *ed* 134 Lawrence
 Ginsburg, S. 2 *l* 110 W. 114
 Ginzburg, D. 1 *c*
 1269-47th, Bklyn.
 Girdner, A. O. † 1 *b* 47 W. 71
 Girdner, F. W. C. 2 *c* 47 W. 71
 Girdner, P. M. † *ph* 47 W. 71
 Giroux, L. M. *fa* 11 W. 81
 Gitlin, I. R. *phar* 60 Forsythe
 Gittelsohn, W. *ph* 38 W. 113
 Gitterman, A. † *pl* 40 W. 59
 Gittleman, H. E. *phar* 166 E. 119
 Given, A. † 4 *ed* Dumont
 Givens, W. E. *pl* 600 W. 122

Gladstein, J. 2 *s* 74 Willett
 Glass, L. † 3 *ed* Whittier
 Glassberg, B. *pl*
 143 Christopher ave., Bklyn.
 Glasser, H. G. 4 *ed* Dunellen
 Gleason, D. S. † 4 *ed* 523 W. 134
 Gleeson, J. M. 2 *s* 184 W. 101
 Glennie, A. C. 1 *c*
 62 Mapes ave., Newark
 Glimm, W. F., Jr. 3 *s*
 155 Clinton ave., Jersey City
 Globus, J. H. 2 *c*
 Gluck, J. B. 2 *l* 611 Columbus ave.
 Gluck, R. † 3 *ed* 254 W. 129
 Glucroft, J. *nm fa*
 34 Graham ave., Bklyn.
 Goddard, F. A. † 1 *pa* Whittier
 Godes, H. J. *phar*
 1157 Walker ave.
 Godfrey, V. N. † 3 *ed* 527 W. 121
 Goenaga, C. † 1 *pa* Whittier
 Goerke, F. C. 2 *c*
 1155 Bushwick ave., Bklyn.
 Goerlich, A. C. 1 *c*
 1051 Tinton ave.
 Goertz, M. † *p* 343 E. 58
 Goetz, G. G. 3 *l* Livingston
 Gold, H. 3 *c* 182 S. 3, Bklyn.
 Gold, M. † 4 *pa*
 623a Willoughby ave., Bklyn.
 Goldberg, B. 1 *j* 16 E. 103
 Goldberg, B. *phar* 281 Monroe
 Goldberg, E. I. *phar*
 400 Amsterdam ave.
 Goldberg, J. S. 1 *l* 31 W. 94
 Goldberg, M. † *phar* 148 W. 141
 Goldberg, N. E. † *ph* 611 W. 152
 Goldberg, S. 1 *s* 201 Henry
 Goldenson, S. H. *ph* Livingston
 Goldfarb, D. 2 *m* 1539-44, Bklyn.
 Goldfinger, H. 1 *s* 231 E. 5
 Goldin, G. B. 2 *l* Livingston
 Goldman, J. † 4 *ed* 416 W. 122
 Goldman, J. L. 4 *s* Hartley
 Goldman, M. 1 *c* 210 Hewes, Bklyn.
 Goldman, M. R. 3 *s*
 585 B'way, Bklyn.
 Goldman, P. 4 *s* 416 W. 122
 Goldmann, J. † 3 *ed* 416 W. 122
 Goldschmidt, J. *phar* 168 E. 96
 Goldsmith, B. † *pl*
 68 Cambridge Pl., Bklyn.
 Goldsmith, E. M. † *gr ed*
 525 W. 120
 Goldsmith, W. H. † 1 *b* 27 W. 94
 Goldstein, J. *phar* 312 Madison
 Goldstein, J. C. 3 *s* 419 E. 73

- Goldstein, M. M. *i c*
496 Sackman, Bklyn.
- Goldstein, W. M. *4 s*
296 Central Pk. W.
- Goldstone, E. H. *† 2 b* 2 W. 89
- Goldstone, J. *3 m* 1126 Park ave.
- Goldwater, E. *gr ed* 701 W. 177
- Golembe, H. *i c* 115 E. 115
- Goll, B. C. *† 4 ed*
25 Pulaski, Bklyn.
- Gollick, W. A. *i c*
127 Chestnut ave., Jersey City
- Gollubier, E. *4 ed* 870 W. 170
- Good, F. F. *gr ed* 525 W. 120
- Good, L. *† gr ed* 233 E. 87
- Goodglick, S. *2 m* 437 W. 59
- Goodhue, F. *3 l* 157 E. 34
- Goodman, B. B. *4 ed* 33 Essex
- Goodman, C. B. *† 4 ed* Whittier
- Goodman, D. *i c* 128 E. 112
- Goodman, E. A. *† ph*
100 Cathedral Parkway
- Goodman, H. *3 c* 141 W. 10
- Goodman, H. I. *3 j*
711 Eastern Parkway, Bklyn.
- Goodman, I. *3 ed*
1416 Pitkin ave., Bklyn.
- Goodman, R. *3 c* 136 E. 127
- Goodman, S. *nm c* 117 W. 119
- Goodrich, F. *gr ed* 345 E. 15
- Goodrich, R. R. *p* 421 W. 121
- Goodstein, P. *2 c* 26 Lenox ave.
- Goodwin, C. H. *ph* Chelsea Sq.
- Goodwin, W. C. *2 c* 550 W. 114
- Goofrich, C. W. *† ed* 421 W. 121
- Gordon, F. A. *4 c*
328 Westfield ave., Elizabeth
- Gordon, I. L. *† 3 ed*
46 Tenaflly Rd., Englewood
- Gordon, K. J. *i c* Fernald
- Gordon, M. P. *phar* 2688 B'way
- Gordon, P. *2 c*
158 Bergen, Newark
- Gordon, W. E. *3 s*
1881 Madison ave.
- Gorman, W. F. *i c*
113 Passaic ave., Nutley
- Gotshall, H. M. *† 3 pa* Whittier
- Gott, A. R. *† 3 ed* Whittier
- Gottesman, J. *3 m* 669 E. 165
- Gottesman, L. *phar* 65 E. 100
- Gottlieb, B. *4 c* 104 E. 81
- Gould, G. J. *i c* 857 Fifth ave.
- Gourin, B. *phar*
2290 Washington ave.
- Gover, H. B. *† 3 ed* 94 Lawrence
- Gow, M. E. *† 3 pa*
309 Humphrey, New Haven
- Gowdey, C. *† ph*
97 Union, Flushing
- Graae, R. *† 3 b*
24 Market, Perth Amboy
- Grabkowitz, E. *fa* 146 W. 111
- Grabo, H. V. *† i pa*
108 Oak, Jersey City
- Grace, M. H. *nm* Great Neck
- Grady, J. T. *i l*
114 Morningside Dr.
- Graeb, G. H. *† fa* 1114 Forest ave.
- Grafton, H. K. *4 c* 205 W. 107
- Graham, A. L. *4 c* 321 W. 94
- Graham, L. J. *† gr ed* Great Neck
- Graham, M. A. *† gr ed*
47 Kensington ave., Jersey Hts.
- Graham, S. E. *2 c* 3875 B'way
- Grandin, F. *† 3 ed* 116 W. 76
- Grant, F. *gr ed* 155 W. 65
- Grant, H. *3 ed* 2050 Madison ave.
- Grant, M. *† ed* 523 W. 138
- Grant, P. M. *3 c* Hartley
- Graves, F. *† 3 ed* 527 W. 123
- Graves, G. N. *phar* 115 W. 68
- Graves, I. *† gr ed*
180 Claremont ave.
- Graves, L. M. *ph* 520 W. 123
- Gray, A. B. *† 3 ed* Whittier
- Gray, C. *† ph* 4 W. 129
- Gray, C. E. *† 3 ed* Croton Falls
- Gray, E. *† i b* 218 W. 129
- Gray, G. *† gr ed* 419 W. 119
- Gray, J. M. *ph* Livingston
- Gray, J. N. *3 ed*
5918 Bay Parkway, Bklyn.
- Gray, M. *† 2 b* Brooks
- Gray, R. P. *nm pa* 435 W. 119
- Gray, R. R. *† i b* 246-14, Bklyn.
- Gray, W. S. *gr ed* Livingston
- Graystone, B. E. *phar* 115 W. 68
- Greathead, E. S. *† 4 ed* 414 W. 121
- Green, E. M. *† 4 ed* 501 W. 120
- Green, E. R. *† 4 ed* 60 W. 129
- Green, G. M. *gr ed* Bound Brook
- Green, H. C. *pl* Fernald
- Green, J. *phar* 1 Willett
- Green, J. C. *ph* 478 W. 159
- Green, J. J. *phar*
20 Ruthven Pl., Summit
- Green, J. L. *† 3 ed* 519 W. 121
- Green, L. C. *† ph* New Rochelle
- Greenbaum, G. *† 3 b* 2 E. 94
- Greenbaum, M. R. *† ed*
700 E. Main, Bridgeport

Greenberg, B. B. *gr ed*
97 Bradford, Bklyn.
Greenberg, C. M. *2c* Hartley
Greenberg, H. *p*
1115 Winchester ave.
Greenberg, J. R. *fa*
2040 Seventh ave.
Greenberg, J. W. *4 j* Fernald
Greenberg, M. *1 m*
1044 Forrest ave.
Greenberg, W. *phar* 722 E. 9
Greenberger, M. *3 m* 302 E. 79
Greenburg, I. *3 ed* 557 W. 124
Greenburg, I. *† 3 b*
92 Morningside, ave. E.
Greenburg, L. *3 s* 557 W. 124
Greene, E. M. *† 3 ed*
39 Park ave., Passaic
Greene, F. A. *phar* 115 W. 68
Greene, G. P. *fa* Livingston
Greene, H. U. *1 s*
440 St. Johns Pl., Bklyn.
Greene, M. *† 2 pa* Whittier
Greene, S. R. *ph*
Grace Court, Bklyn.
Greenhalgh, L. R. *† ed*
41 Purser Pl., Yonkers
Greenleaf, D. L. *3 s*
434 Riverside Dr.
Greenwald, A. *3 ed*
338 Chestnut, Richmond Hill
Greenwald, G. V. *† 4 b*
27 So. Seventh ave., Mt. Vernon
Greenwald, L. *2 s* 317 E. 57
Greenwald, M. M. *phar* 286 Second
Greenwald, R. R. *† 4 ed*
32 St. Marks Pl.
Greer, H. R. *† 1 b* Brooks
Greenwood, W. E. *† 4 ed*
3692 B'way
Gregg, D. I. *† 3 ed* 604 W. 125
Gregory, A. *† ph* 523 W. 122
Greiff, L. *† gr ed* 202 W. 79
Greig, M. *† 3 ed* Woodmere
Gretsch, H. *4 s*
1183 Bergen, Bklyn.
Gretsch, L. *† 1 b*
1161 Amsterdam ave.
Grieve, R. P. *4 s*
501 Sixth, Bklyn.
Grieves, D. *† 4 ed*
1105 Amsterdam ave.
Griffen, J. D. M. *1 c* Port Chester
Griffen, R. F. *4 c* 558 W. 113
Griffin, E. B. *1 l* 550 W. 114
Griffith, J. *† ed* Whittier
Griggs, G. S. *† 3 ed* Whittier

Griggs, M. A. *† p* Brooks
Grimes, F. W. *† 3 pa* East
Grimes, R. C. *† 1 pa*
60 Boyd ave., Jersey City
Grimm, H. *phar* 586 E. 163
Grimshaw, H. E. *4 c*
Kensington Rd., Garden City
Griscom, B. *† 3 ed* 507 W. 121
Gritz, D. K. *phar* 117 Ludlow
Grof, C. *† 4 ed*
168 Spring, Ossining
Grof, J. *† 3 b* 168 Spring, Ossining
Grollman, M. *2 m* 150 Henry
Groman, S. *2 s* 725 Fairmount Pl.
Gropper, M. H. *1 c*
398 Bainbridge, Bklyn.
Grose, L. R. *ph* 420 W. 119
Groshens, M. *† 1 b* Brooks
Gross, A. M. *† 3 ed* 12 E. 115
Grossbaum, B. *3 c* 920 Kelly
Grossman, D. *phar* 70 Columbia
Grossman, E. *† 2 b*
1347 Lexington ave.
Grossman, G. *† 1 pa* Whittier
Grossman, H. *2 s* 1218 Third ave.
Grossman, J. B. *gr ed* 197 E. B'way
Grossman, V. *† 1 pa* Whittier
Grosvenor, R. *1 m* 17 W. 8
Groten, F., Jr. *2 s* Hartley
Grünberg, I. A. *2 j* 200 W. 111
Gruney, D. F. *3 ed* Nutley
Grunow, H. L. *† 1 pa* 500 W. 114
Grunow, W. R. *4 s* 500 W. 114
Gubner, P. A. *† 2 b* Brooks
Guck, O. M. U. *phar*
1472 President, Bklyn.
Gudebröd, Mrs. M. C. *† nm b*
65 W. 9
Guernsey, R. E. *† 4 b* 200 W. 99
Guerrieri, P. *phar*
65 Crawford, Newark
Guggenheim, R. M. *2 c* 121 E. 90
Guiton, D. E. *pl* Livingston
Guldner, R. *1 l* 423 W. 118
Gunzendorfer, L. *† 1 b* 316 W. 97
Gurry, E. A. *phar* 115 W. 68
Gurry, W. J. *phar* 115 W. 68
Gustafson, W. W. *ph* Kenilworth
Guterman, H. *2 s* 53 W. 113
Guthrie, C. S. *† 1 b* 232 E. 11
Haag, F. G. *† ph* 625 W. 156
Haaren, A. H. *4 c* 147 W. 122
Haas, F. *† p* 33 W. 127
Haddow, B. *† 3 ed* 61 Hamilton Pl.
Hadley, R. A. *pl* 600 W. 122

- Hadsell, I. W. 4 s
99 Claremont ave.
- Haessler, L. † *ph*
100 Morningside Dr.
- Hafey, J. T. 1 l Hastings
- Hagaman, L. S. *phar*
46 Hatfield Pl., Port Richmond
- Hageman, D. 1 s
1239 Herkimer, Bklyn.
- Hagemeyer, F. H. 2 c
815 Ritter Pl.
- Haggart, M. H. † *gr ed* Whittier
- Hahn, I. † 1 b 26 W. 91
- Hahn, M. † *gr ed*
191 Claremont ave.
- Haiblum, L. N. 2 l
682 Bay, Stapleton
- Haight, H. I. † *pl* 609 W. 127
- Haight, J. P., Jr. 1 s
1753 Montgomery ave.
- Haight, V. W. 1 c Montrose
- Haines, S. D. † 4 *ed* Whittier
- Haire, T. C. *fa* 565 W. 113
- Halbert, W. C. *fa* Hartley
- Haldenstein, A. A. 3 c 321 W. 92
- Hale, A. M. † 4 *ed*
220 St. James Pl., Bklyn.
- Hale, F. † *pl* 135 E. 52
- Hall, A. A. † 1 b 517 W. 171
- Hall, B. D. † 4 *ed*
106 Morningside Dr.
- Hall, C. E. 3 c Livingston
- Hall, C. J. 4 c
49 Claremont ave.
- Hall, D. † 2 b 90 Riverside Dr.
- Hall, E. † 2 b 204 W. 114
- Hall, F. C. 2 c 245 W. 48
- Hall, G. B. *fa* 473 W. 140
- Hall, H. T. 3 l
200 N. Arlington ave.,
E. Orange.
- Hall, H. W. 1 l Furnald
- Hall, J. C. *nm l* Livingston
- Hall, L. 1 c
1534 Pitkin ave., Bklyn.
- Hall, M. † 1 *pa* Whittier
- Hall, M. A. † *gr ed* Whittier
- Hall, M. G. † 2 *pa* Whittier
- Hall, R. O. *pl* 419 W. 118
- Hallett, M. M. † 1 b Brooks
- Halliday, S. E. *nm s* 520 W. 114
- Hallock, A. C. † *pl* 36 E. 65
- Hallock, F. A. † *p* 527 W. 121
- Hallock, K. R. † 4 *ed*
160 Summit ave., Jersey City
- Halloran, W. F. 4 *ed* Hartley
- Hallowell, M. E. † *ph* 527 W. 121
- Halpern, H. 4 m
1952 Amsterdam ave.
- Halsted, H. 3 m 346 W. 57
- Halter, C. R. 1 c 243 E. 123
- Hamann, H. *ph* 171 E. 82
- Hambright, J. B. *gr ed* Englishtown
- Hamdi, A. F. 3 s 401 W. 117
- Hamilton, A. *nm l* 15 E. 11
- Hamilton, C. E. 2 c 431 W. 117
- Hamilton, J. † 3 *ed* Whittier
- Hamilton, M. *fa* 565 W. 113
- Hamlin, T. F. *fa*
105 Morningside ave.
- Hammarstrom, C. A. 1 c
352 Douglass, Bklyn.
- Hammer, H. J. *phar*
1488 Washington ave.
- Hammerstein, O. 2 c
315 Central Pk. W.
- Hammond, M. F. † *ph*
400 Riverside Dr.
- Hammond, P. H. *nm s*
47 Claremont ave.
- Hanaway, R. 2 c
220 Audubon ave.
- Hanchett, A. C. 2 s Furnald
- Hancock, H. C. 1 m 415 W. 128
- Hancock, N. I. † 3 *ed*
36 W. 34, Bayonne
- Hand, C. K. 4 m
218 S. Third ave., Mt. Vernon
- Handin, L. 1 c 1525-44th, Bklyn.
- Hanemann, H. W., Jr. 1 c
255 W. 93
- Hanig, A. *phar* 4278 Third ave.
- Hanley, F. † *gr ed* 117 W. 90
- Hanlon, J. T. 2 s 601 W. 115
- Hann, C., Jr. 2 l Furnald
- Hansen, H. B. 3 m
213 James, Weehawken
- Hara, Z. *nm c* 450 4th ave.
- Harada, T. *ph* 80 Manhattan ave.
- Harbison, J. A. † 4 *ed* Whittier
- Harden, M. E. B. † 1 b
1710 Albemarle Rd., Bklyn.
- Harding, F. C. *ph*
Scarsdale ave., Yonkers
- Harding, R. E. † 1 *pa*
1298 Dean, Bklyn.
- Harding, W. J., Jr. 2 s
- Hardison, R. M. *fa* 429 W. 117
- Hardwick, E. G. † 3 b
662 E. 32, Bklyn.
- Hardy, S. D. B. † *pl* 419 W. 118

Haring, E. L. † 2 *b*
 446 Cherry, Elizabeth
 Harmon, S. E. † 3 *ed* Whittier
 Haroh, E. 2 *l* 27 E. 64
 Haronian, G. † *gr ed* Whittier
 Harper, E. M. † 4 *ed*
 6714 Ridge Boulevard, Bklyn.
 Harper, J. † 3 *b*
 1071 St. Nicholas ave.
 Harper, P. S. 2 *s* Hartley
 Harrelson, H. † 3 *ed* Whittier
 Harrer, H. † 3 *b*
 233 Macon, Bklyn.
 Harrington, E. † *gr ed* 401 W. 118
 Harris, C. P. 4 *s* 243 W. 98
 Harris, F. † *Sp b* Brooks
 Harris, G. T. † 4 *ed*
 Horace Mann School
 Harris, H. † 4 *b* Brooks
 Harris, N. C. *pl* Livingston
 Harris, R. S. 1 *l* Furnald
 Harris, R. W. 4 *s* 429 W. 117
 Harrison, F. L. † 3 *ed*
 2333 Loring Pl.
 Harrison, G. I. 4 *s* 2 E. 97
 Harrison, J. R. 1 *c* Furnald
 Hart, H. † *pl* 541 W. 123
 Hart, H. F. *gr ed* Montclair
 Hart, L. C. † 3 *ed* 541 W. 123
 Hart, M. M. † 3 *ed* Whittier
 Hartig, S. H. 3 *s*
 228 Audubon ave.
 Hartley, E. C. *fa*
 34 Vermilyea ave.
 Hartlieb, R. C. † *gr ed* Whittier
 Hartman, E. E. *phar*
 2240-82, Bklyn.
 Hartman, R. C. † 3 *ed* 500 W. 122
 Hartvigsen, H. J. 3 *m* 124 W. 56
 Hartwell, F. W. *p*
 17 Schermerhorn, Bklyn.
 Harty, G. † 3 *ed* 415 W. 118
 Harvey, W. J. 4 *s*
 507 Madison ave.
 Harvitt, A. 4 *c*
 192 Hooper, Bklyn.
 Harvitt, H. G. 2 *c*
 192 Hooper, Bklyn.
 Harwood, H. R. 3 *s* Tenaflly
 Hasberg, G. S. † *ph*
 99 Claremont ave.
 Hasbrouck, M. L. † 3 *ed*
 87 Linden ave., Middletown
 Haskins, B. T. 1 *c* Hartley
 Hassan, A. A., Jr. 1 *c*
 61 Waldorf Court, Bklyn.

Hastings, D. E. † 3 *ed*
 525 W. 120
 Hastings, F. A. 2 *c*
 102 Maple, Richmond Hall
 Hasty, B. O. † 3 *ed* 557 W. 124
 Hasty, P. S. *gr ed* 557 W. 124
 Hatch, F. † 1 *b* 571 W. 139
 Hatch, V. 1 *l* Livingston
 Hattorf, P. † 1 *b*
 30 Van Corlear Pl., Marble Hill
 Hauben, L. 4 *c* 38 W. 117
 Hauckel, M. S. † *ed* Whittier
 Hawk, C. 1 *s*
 125 Bruce ave., Yonkers
 Haupin, J. P. *gr ed*
 71 State, Bloomfield
 Hausle, E. C. † 1 *b*
 1034 Union ave.
 Havens, G. † 3 *ed* Whittier
 Havens, H. C. † 3 *pa* Whittier
 Havens, W. W. 4 *s* 469 E. 134
 Hawes, E. W. † 3 *b*
 13 Leland ave., New Rochelle
 Hawk, K. W. 3 *s* Hartley
 Hawkes, A. H. † 4 *ed* Whittier
 Hawkes, E. W. *ph* Edgewater
 Hawkins, V. *phar*
 11 Montague Ter., Bklyn.
 Hawksley, A. † 4 *ed*
 133 Lafayette ave., Bklyn.
 Hay, J. B. † *pl* 205 W. 57
 Hayden, M. F. † 1 *b*
 593 Riverside Dr.
 Hayden, P. M. *ph* Livingston
 Hayes, E. A. 2 *s*
 1625-49, Bklyn.
 Hayes, M. C. † 3 *ed* 525 W. 120
 Hayford, S. 3 *c* Hartley
 Haynes, M. W. *gr ed*
 73 W. 5, Bayonne
 Hayward, C. L. 1 *s* Furnald
 Heady, J. H. *pl* 8 W. 108
 Healy, H. H. 3 *l* 604 W. 114
 Healy, J. 1 *c*
 221 Willoughby ave., Bklyn.
 Healy, J. X. *ph* 2582 Eighth ave.
 Healy, T. J. 1 *l* Livingston
 Hearn, C., Jr. 4 *c* Furnald
 Heath, H. E. † 4 *ed* 505 W. 121
 Heath, J. N. 2 *s* Hartley
 Heaton, H. C. *ph* University Hts.
 Hecht, R. † 2 *b* 9 E. 97
 Hecht, S. † 1 *b* 64 W. 88
 Hecht, S. † 3 *pa*
 Box 67, Maywood
 Heck, E. B. 1 *m*
 22 Gifford ave., Jersey City

- Heckelman, I. 2 *pa*
 151 Second ave.
 Heddeshimer, H. E. *phar*
 781 E. 176
 Hedley, P. † 2 *b*
 2308 Andrews ave.
 Heft, H. L. † *p* 414 W. 118
 Heilman, L. A. 1 *s* 236 W. 17
 Heinemann, B. D. † 4 *b*
 221 E. 72
 Heisel, J. † 3 *ed*
 32 Rathburn ave., White Plains
 Helfman, F. † 4 *ed* 14 Jardine Pl.
 Heller, H. *p* 146 W. 111
 Heller, J. A. *phar* 27 Canal
 Helms, H. H. 1 *c* Ossining
 Henderson, C. R. *fa*
 12 Greenridge ave., White Plains
 Henderson, F. T. 1 *c*
 82 Irving Pl.
 Henderson, H. B. 1 *l* Hartley
 Henderson, H. G., Jr. 4 *s*
 434 Riverside Dr.
 Henderson, H. V. D. † *ph*
 7 Henry, Bklyn.
 Hendler, M. *phar* 27 E. 110
 Hendley, C. J. *pl*
 129 Fulton ave., Long Island City
 Hendrick, P. E. 1 *l* 633 W. 115
 Hendricks, H. S. 4 *c* 57 W. 87
 Hendricks, R. † *Sp b* 360 W. 123
 Henk, R. L. *nm pa* Dumont
 Henkel, W. *phar*
 1533 Greene ave., Bklyn.
 Henmann, E. I. † 1 *pa*
 2478 Second ave.
 Henne, A. W. 2 *c* 536 W. 114
 Henry, A. S., Jr. 2 *s*
 333 Central Pk. W.
 Henry, E. † 3 *b*
 80 Claremont ave.
 Henry, J. P. 3 *c* 417 W. 118
 Henry, L. S. 4 *c* 435 W. 117
 Henry, W. 1 *s* 333 Central Pk. W.
 Henson, H. † 3 *ed* 219 W. 134
 Herbert, E. W. 3 *ed* 265 Henry
 Herbert, W. H. 3 *c* 434 W. 22
 Herendeen, J. E. † *ph* 435 W. 119
 Hereth, M. M. † 3 *pa*
 2104 Beverly Rd., Bklyn.
 Hergert, C. H. *phar*
 110 Trumbull, Elizabeth
 Herkert, K., Jr. 4 *c* 565 W. 113
 Herman, H. 1 *c* 628 Third ave.
 Herman, H. 3 *c* 208 E. 69
 Herman, I. 1 *c* 105 Quincy, Bklyn.
 Hermann, A. C. † 1 *b*
 84 Sterling Pl., Bklyn.
 Hermes, H. L. 1 *m* 332 E. 30
 Hermsdorf, R. P. 1 *s* 538 E. 88
 Hernandez, C. F. *fa* 237 W. 107
 Herod, D. † 4 *b*
 126 Claremont ave.
 Herold, F. † 3 *ed* 519 W. 121
 Herold, L. *ph* 255 West End ave.
 Herpolsheimer, A. O. *phar*
 116 W. 70
 Herrick, H. E. 2 *l* Lawrence
 Herrick, Z. E. † 3 *ed* 417 W. 114
 Herring, A. C. 4 *c* 550 W. 114
 Herrlich, W. L. 2 *l* 443 E. 239
 Herrman, H. † *p* 58 E. 124
 Herrmann, A. *ph* 234 E. 72
 Herrmann, G. J. 2 *c* 22 E. 95
 Hershenstein, H. *phar* 98 Essex
 Hershey, E. P. † 1 *pa*
 17 Linden ave., Bklyn.
 Herson, O. 3 *c* 756 Hewitt Pl.
 Herstein, K. M. 1 *c*
 1432-57, Bklyn.
 Hertz, L. † *gr ed* 1480 Bryant ave.
 Hertz, O. *phar*
 12 Lee ave., Bklyn.
 Herzfeld, A. J. † 3 *b* 44 W. 126
 Heslin, W. M. 1 *m*
 1024 Bedford ave., Bklyn.
 Hess, A. H. † 4 *ed* Whittier
 Hess, B. † 3 *ed* 509 W. 122
 Hess, E. † 3 *b* 34 W. 120
 Hess, R. J. † *pl* 965 Madison ave.
 Hesselbach, H. V. 3 *ed*
 Cooper Union
 Hessler, E. E. † 1 *pa* Tenafly
 Heuermann, H. F. † *ph* Whittier
 Hauser, J. O. *fa* Bayside
 Hewitt, M. N. † 4 *ed*
 191 Claremont ave.
 Heydecker, C. M. 1 *c* 558 W. 113
 Heyder, H. 2 *l* Hartley
 Heyman, B. 1 *j*
 660 Quincy, Bklyn.
 Heyman, J. † 1 *b*
 325 Montgomery, Jersey City
 Heyman, M. † 1 *b* 53 Ave. A
 Heyman, M. 1 *s*
 1887 Madison ave.
 Heyn, O. P., Jr. 2 *l*
 Howard ave., Stapleton
 Hibbs, H. H., Jr. *pl* Livingston
 Hickey, T. E. 1 *c* 604 W. 114
 Hickox, I. C. † 1 *b*
 140 Decatur, Bklyn.
 Hickok, L. C. † *ph* 519 W. 121

Hicks, R. W., Jr. *nm fa* 540 W. 113
Hiebel, T. † 1 *b* 26 S. Orange ave., Newark
Hiemenga, J. J. 2 *c* 219 Myrtle ave., Passaic
Higgins, C. H. *pl* 15 Exchange Pl., Jersey City
Higgins, G. H. 3 *c* Hartley
Higgins, M. † *ph* 825 W. 178
High, L. C. *pl* 600 W. 122
Hiki, T. *p* 50 Church
Hilborn, D. D. 1 *c* 22 W. 96
Hilborn, R. † *ph* 11a W. 94
Hildebrand, A. S. *fa* 670 Lexington ave.
Hildebrand, H. E. 1 *s* 295 E. 4, Bklyn.
Hildreth, C. L., Jr. 3 *s* Hartley
Hildreth, M. D. 1 *l* Livingston
Hill, A. D. † *p* 539 W. 112
Hill, D. 2 *l* 323 W. 87
Hill, J. H. *gr ed* 537 W. 123
Hill, J. J. *phar* Marlboro
Hill, J. W. 3 *l* 131 W. 118
Hill, L. C. † 3 *ed* 419 W. 119
Hilldring, J. H. 1 *c* 429 W. 117
Hillis, M. † 2 *b* Brooks
Hillman, S. D. † 2 *pa* 179 W. Milton ave., Rahway
Hillman, W. 1 *c* 1361 Boston Rd.
Hilton, V. † 2 *pa* 12 Schulyer Ct., Bayonne
Hinchman, E. † *nm pa* Hotel Martha Washington
Hinckley, L. C. *nm fa* 541 W. 124
Hinds, E. A. † 3 *ed* 70 Morningside Dr.
Hine, R. C. 3 *s* Cornwall
Hines, A. B. *pl* 419 W. 115
Hines, J. C. *p* Livingston
Hird, H. B. *nm s* 1123 Woody Crest ave.
Hirsch, I. 3 *s* Hartley
Hirsch, M. S. 3 *l* 56 E. 93
Hirsch, P. *phar* 108 Hawthorne ave., Yonkers
Hirschfeld, L. *fa* 418 E. 58
Hirschopf, P. *ph* 741 DeKalb ave., Bklyn.
Hirshfield, I. W. 1 *c* 1 W. 92
Hirshleifer, L. J. *p* 13 Varet, Bklyn.
Hitti, P. K. *pl* 550 W. 113
Hoagland, V. C. *phar* 115 W. 68
Hoak, M. E. † 3 *ed* 414 W. 120
Hoard, M. † 3 *ed* 401 W. 118

Hobbs, M. A. † *pl* 416 W. 122
Hobbs, R. J. M. 3 *l* Livingston
Hochette, H. E. 1 *s* 147 Sterling Pl., Bklyn.
Hochschild, G. † 3 *b* 565 West End ave.
Hochstein, L. I. 1 *l* 30 E. 3
Hodenpyl, G. H., Jr. *fa* 123 Hobart ave., Summit
Hodes, H. H. *phar* 1523 E. 15, Bklyn.
Hoehm, A. J. 1 *s* 471 W. 144
Hoermann, E. † 3 *ed* 1208 Bloomfield, Hoboken
Hoey, M. A. † 4 *ed* Ft. Edward
Hoffman, E. † 3 *ed* Whittier
Hoffman, M. *fa* 58 E. 79
Hoffman, M. D. 3 *c* 45 Elizabeth ave., Newark
Hoffman, S. 2 *c* 35 W. 51
Hoffman, S. J. † 1 *pa* 512 W. 123
Hoffmann, A. I. † *gr ed* 106 Morningside Dr.
Hoffmann, A. S. 1 *l* 211 E. 18
Hoffmann, C. J., Jr. *ph* 1027 S. Boulevard
Hoffmann, J. *p* 534 W. 124
Hofrichter, A. C. † *pl* 135 E. 52
Hofstein, S. *phar* 241 S. Third, Bklyn.
Hogan, O. R. † 2 *b* Whittier
Hoge, M. A. † *p* 509 W. 121
Hoke, C. M. † *p* Palisades
Holbrook, H. † 1 *b* 975 St. Nicholas ave.
Holden, A. C. *fa* 323 Riverside Dr.
Holliday, K. J. *p* Hartley
Hollinger, S. C. † 3 *pa* Whittier
Hollingshead, G. G. *pl* Fort Lee
Hollingworth, L. S. † *gr ed* 510 W. 124
Hollister, G. M. † 3 *ed* 112 Essex ave., Orange
Hollmann, R. F. 3 *s* 488 Monroe, Bklyn.
Holloway, M. E. † 4 *ed* 1 W. 129
Holloway, R. E. *ph* Livingston
Holman, R. F. 4 *ed* 525 W. 120
Holmes, H. A. *ph* Fernald
Holmes, I. † *ph* Summit
Holmes, M. H. † 3 *ed* Whittier
Holt, G. C. *nm c* Elmhurst
Holt, H., Jr. *fa* 44 E. 78
Holte, M. F. † 3 *ed* Whittier

- Holthusen, H. F. 2 c
684 Madison, Bklyn.
- Holtz, E. L. M. fa 431 W. 117
- Holtzman, P. J. 4 s 544 W. 113
- Holz, M. B. † 3 ed 345 W. 70
- Holzinger, J. J. 3 c
109 Onderdonk ave., Bklyn.
- Holzman, A. gr ed 506-12, Bklyn.
- Holzman, M. 3 m 531 W. 135
- Holzwasser, F. † 4 b 230 W. 99
- Homlet, H. 1 c 143 W. 105
- Honess, C. W. p Livingston
- Hood, P. K. p 435 W. 117
- Hooker, W. H. 2 s
82 Remsen, Bklyn.
- Hooven, W. T., Jr. 1 c Tenafly
- Hoover, A. L. † 3 pa
161 Willoughby ave., Bklyn.
- Hoover, E. D. † 4 pa 417 W. 120
- Hoover, Mrs. M. M. † ph
417 W. 120
- Hope, D. M. † 3 ed Whittier
- Hope, I. M. † ph 110 W. 122
- Hopkins, E. A. † 1 pa
417 W. 121
- Hopkins, E. B. † pl 122 E. 64
- Hopkins, H. J. † 4 ed 507 W. 121
- Hopkins, H. P. fa Hartley
- Horikawa, Y. pl Fernald
- Horn, E. gr ed 94 Lawrence
- Hornbrook, G. L. 1 l
- Horner, R. B. nm s 609 W. 115
- Horowitz, R. N. † 3 b 211 W. 128
- Horowitz, S. phar 72 S. 10
- Horton, H. † gr ed
316 Carleton ave., Bklyn.
- Horton, J. A. 3 s 203 W. 106
- Horton, W. S. 1 m 200 W. 100
- Horvitz, A. phar 113 E. 96
- Horwitz, L. phar 96 W. 51
- Hotchkiss, H. G. 1 l 59 W. 48
- Hough, G. A., Jr. 1 j Fernald
- Hough, G. H. † 1 pa Dumont
- Hough, J. W. † ph 528 W. 123
- Hough, M. A. † 3 ed 418 W. 118
- Hough, M. E. † ph 528 W. 123
- Hough, V. † ph 419 W. 119
- Houghton, F. H. † 4 ed Whittier
- Houston, C. F. fa 420 W. 119
- Houston, J. F. † gr ed
518 Williams, E. Orange
- Hovey, H. M. gr ed 410 W. 115
- Howard, A. E. † 4 ed
191 Claremont ave.
- Howard, J. E. 3 s Rye
- Howard, J. M. pl 600 W. 122
- Howe, A. C. † ph
811 Ocean ave., Bklyn.
- Howe, L. † 3 b
29 First ave., Mt. Vernon
- Howe, R. B. † nm b
415 Ft. Washington ave.
- Howe, R. W. 1 c
40 S. Oxford, Bklyn.
- Howell, F. M. † 3 b
730 E. 26, Paterson
- Howell, G. d'A. Y. † 2 pa
9 Arlington Pl., Bklyn.
- Howell, S. I. 1 s
57 S. Clinton, E. Orange
- Howry, H. H. 3 s 616 W. 113
- Hoxsey, G. D. pl Chelsea Sq.
- Hoyt, C. C. 3 l 435 W. 117
- Hoyt, D. C. 4 s Fernald
- Hoyt, R. † ed Whittier
- Hsu, C. pl 554 W. 114
- Hsu, E. T. † 3 ed 418 W. 118
- Huang, C. p 363 Manhattan ave.
- Huard, H., Jr. phar Winooski
- Hubbard, B. 4 c 523 W. 122
- Hubbard, E. H. † 2 b Brooks
- Hubbard, F. M. pl Livingston
- Hubbard, G. L. † 3 b
109-14, Flushing
- Hubbard, M. 2 pa 131 W. 94
- Hubbard, M. G., Jr. 1 l
33 Convent ave.
- Hubbell, J. P. 2 s Garden City
- Hubbell, R. W. 1 j Englewood
- Hudes, H. L. phar 827 Union ave.
- Hudson, E. M. 2 m 437 W. 59
- Huff, S. A. † 4 ed
476 Clinton ave., Bklyn.
- Huggins, W. N. 4 ed 202 W. 133
- Hughes, J. H., Jr. 1 l 633 W. 115
- Hughes, M. F. † 2 b
43 Lake, Bloomfield
- Hughes, T. ph 554 W. 114
- Hughes, W. M., Jr. 1 c Fernald
- Huguenin, C. ph 430 W. 119
- Huie, A. O. † 1 b 225 E. 31
- Huiskamp, Mrs. M. E. † Sp b
420 Riverside Dr.
- Hull, L. P. † pl 135 E. 52
- Hulskamp, M. † 2 b 544 W. 157
- Hume, H. I. † 3 ed Whittier
- Hume, T. ph Fernald
- Hume, W. F. 2 m 333 W. 58
- Hummel, E. J. pl Livingston
- Humphrey, M. K. † pl Whittier
- Humphreys, L. G. † 4 ed Whittier

Hungerford, E. S. † 4 *ed* Whittier
 Hunkins, C. J. *gr ed*
 263 Passaic, Hackensack
 Hunley, E. V. † 3 *b* 526 W. 173
 Hunt, C. W. *gr ed* 530 W. 122
 Hunt, D. P. 3 *ed*
 811 St. Nicholas ave.
 Hunt, E. A. † *ed* 53 E. 132
 Hunt, E. R. † 3 *ed* 523 W. 122
 Hunt, H. L. † *nm b*
 563 Park ave.
 Hunt, H. T. † *pl* 530 W. 122
 Hunt, M. E. † 4 *ed* 430 W. 118
 Hunt, M. M. *ph*
 312 S. 2 ave., Mt. Vernon
 Hunt, R. L. 1 *s*
 329 Clifton Pl., Bklyn.
 Hunter, A. H. 1 *l* Furnald
 Hunter, S. A. *pl* 600 W. 122
 Huntington, J. † 2 *pa*
 16 Lawrence, Yonkers
 Huntingdon, K. E. † 1 *b*
 16 Glen ave., Mt. Vernon
 Huntington, R. T. 3 *j*
 Box 84, University Hts.
 Huntting, E. † *gr ed* 111 E. 56
 Hurd, R. A. 3 *m* 515 W. 143
 Hurxthal, F. T. *pl* Madison
 Husing, M. A. † 4 *ed*
 1285 Pacific, Bklyn.
 Hussakof, E. † 3 *ed*
 148 East B'way
 Huston, Mrs. R. B. † *ed*
 11 Old B'way
 Hutchins, L. W. 3 *j* 532 W. 145
 Hutchinson, J. 1 *s*
 8 Badeau Pl., New Rochelle
 Hutchison, 4 *m* 350 W. 58
 Hutton, A. D. † 2 *pa*
 25 Hamilton, E. Orange
 Hutton, H. S. 2 *s* West Nyack
 Hutton, S. E. † *p* 13 W. 103
 Huyler, W. C. 3 *c* Tenafly
 Hyde, J. E. † 1 *pa* 611 W. 137
 Hyman, H. T. 3 *c* 515 W. 110
 Hyman, M. 2 *l* 520 W. 114
 Iaason, A. H. 3 *m*
 729a Macon, Bklyn.
 Ikemoto, S. E. *pl* 600 W. 122
 Ill, E. W. 1 *m*
 188 Clinton ave., Newark
 Ilsen, W. R. 3 *c*
 52 Morningside ave.
 Imes, W. L. *pl* 600 W. 122
 Immediato, P. J. *phar* 252 E. 203

Ingersoll, W. R. 1 *c*
 33 W. 44, Bayonne
 Ingles, N. G. † 4 *ed* Hobart
 Inglis, E. S. † 1 *pa* Whittier
 Ingram, D. M. *nm l* Livingston
 Ingram, E. G. *nm s*
 230 Riverside Dr.
 Innes, F. V. † 4 *pa* Whittier
 Irish, C. G. 3 *m* 506 W. 111
 Irons, M. L. † 3 *ed* 417 W. 121
 Irvine, R. S. 4 *m* 437 W. 59
 Irwin, E. C. † *gr ed* 512 W. 123
 Irwin, R. G. † 4 *ed* Whittier
 Isaacs, M. *gr ed* 10 W. 116
 Isbell, O. C. 3 *l* 540 W. 165
 Iskenderian, H. *phar* 17 W. 24
 Isobel, E. C. † *gr ed* 251 W. 98
 Israel, L. D. *phar*
 1732 Madison ave.
 Isselhardt, L. A. 1 *c* 854 W. 181
 Ivey, A. L. 2 *l* 540 W. 113
 Iwasawa, T. † 3 *ed* Whittier
 Jabine, L. 3 *c*
 9 Morris Crescent, Yonkers
 Jablonower, A. † 1 *b*
 1390 Clinton ave.
 Jablouw, B. *p* 1390 Clinton ave.
 Jackson, B. E. † *ed* 525 W. 120
 Jackson, D. 3 *ed*
 215 Union ave., Mt. Vernon
 Jackson, E. C. 1 *s*
 52 Hillcrest ave., Yonkers
 Jackson, F. H. † *p* Whittier
 Jackson, L. † 4 *ed* West Summit
 Jackson, L. J. 1 *s* 240 E. 61
 Jackson, L. M. † 3 *b*
 505 Clinton ave., Bklyn.
 Jackson, S. C. 1 *m* 437 W. 59
 Jackson, S. L. 3 *l* 118 W. 57
 Jacob, H. A. † 1 *pa* 50 W. 77
 Jacobs, A. W. 3 *m*
 950 Avenue St. John
 Jacobs, E. C. *p* Furnald
 Jacobs, E. R. 2 *l* 7 W. 114
 Jacobs, H. L. 2 *s*
 132a Sumner ave., Bklyn.
 Jacobs, J. M. *phar*
 313 Hamilton ave., Paterson
 Jacobs, M. 2 *pa*
 464 Avenue C, Bayonne
 Jacobsen, N. B. † 3 *b*
 182 Kearney ave., Perth Amboy
 Jacobson, D. L. 4 *c*
 578 Grand, Jersey City
 Jacobson, G. 1 *s* 1314 Boston Rd.

- Jacobson, M. M. *phar*
453 Nepperhan ave., Yonkers
- Jacoby, J. H. † 2 *b*
285 Central Pk. W.
- Jacques, H. C. 3 *l*
539 Manhattan ave.
- Jaeger, L. C. *nm fa* 527 W. 121
- Jaffe, L. R. *pl* 445-16, Bklyn.
- Jaffe, W. M. *phar*
70 Hamburg ave., Paterson
- Jaffray, J. K. † *pl* 127 W. 76
- Jagger, O. B. † 1 *pa*
130 Claremont ave.
- Jahn, A. E. *pl* 600 W. 122
- Jahn, L. D. † 4 *ed* 500 W. 122
- James, A. † *pl* 257 W. 104
- James, F. M. † 4 *ed*
136 McLean ave., Yonkers
- Jamison, A. C. † 3 *b*
257 Clermont ave., Bklyn.
- Janney, S. M., Jr. 1 *c* 102 W. 93
- Jansen, W. *gr ed*
2233 Belmont ave.
- Jaques, S. 3 *s*
44 Morningside Dr.
- Jaquith, H. C. 4 *j* 600 W. 122
- Jardine, B. W. † 2 *pa* Whittier
- Jareckie, E. A. 4 *s* Livingston
- Jarvis, E. † 3 *pa*
45 Hamilton ave., Yonkers
- Jarvis, H. L. *phar* 3671 B'way
- Jauss, R. 2 *s* 178 W. 82
- Javitz, A. E. 1 *s* 163 W. 80
- Jeanneret, A. 3 *s* E. Rutherford
- Jeffrey, L. McL. † 3 *b* 234 W. 136
- Jellerson, M. D. † 4 *ed*
98 Park, Montclair
- Jemison, B. D. † 3 *ed* 240 E. 105
- Jenkins, H. † 4 *ed* 70 Morningside
- Jenkins, H. H. † 3 *b*
232 Madison ave.
- Jenkins, I. N. 2 *l* 520 W. 122
- Jennings, E. J. *ph* 175 Ninth ave.
- Jennings, L. † *ph* 501 W. 121
- Jensen, E. L. 4 *c* Hartley
- Jensen, R. A. † 1 *b*
2337 Webster ave.
- Jerome, W. T., Jr. 2 *l*
611 Cathedral Parkway
- Jerskey, A. 3 *m* 16 W. 119
- Jesserand, L. P. *fa* Fernald
- Jessup, E. C. 2 *m* 421 W. 57
- Jetter, W. F. 1 *c* Hartley
- Jewell, E. W. 1 *c* Hartley
- Jewell, R. H. 3 *l* 417 W. 118
- Jewell, T. B., Jr. 3 *l* 417 W. 118
- Jewett, C. H. 2 *m* 437 W. 59
- Jewett, F. W. 3 *c*
14 Morningside ave.
- Jimenis, E. A. 1 *c* Hotel Ansonia
- Jobe, M. L. † *ph*
50 Morningside Dr.
- Jockinsen, J. P. *pl* 600 W. 122
- Johanson, A. M. 2 *c*
730 Cranford ave.
- Johanson, F. O. 1 *c* 513 E. 176
- John, G. H., Jr. 2 *s*
2702 Bainbridge ave.
- Johnson, A. † *pl* Whittier
- Johnson, A. A. 4 *c* 315 W. 121
- Johnson, A. G. † 3 *ed* Whittier
- Johnson, B. † 1 *b*
2215 Avenue Q, Bklyn.
- Johnson, B. H. *gr ed* 530 W. 123
- Johnson, C. C. † 4 *ed*
87 High, Yonkers
- Johnson, D. D. 4 *ed* 525 W. 120
- Johnson, E. † *ph* 504 W. 112
- Johnson, E. † 1 *pa*
288 Broad, Bloomfield
- Johnson, F., Jr. *pl* 15 W. 107
- Johnson, F. G. 3 *j* 32 & B'way
- Johnson, H. F. 3 *m* 307 W. 70
- Johnson, H. V. 4 *c*
327 Lincoln, Flushing
- Johnson, I. G. † *gr ed*
87 Vernon ave., Mt. Vernon
- Johnson, J. L. 4 *m* 350 W. 58
- Johnson, J. L. 2 *l* Livingston
- Johnson, L. P. † *pl* 400 W. 118
- Johnson, J. W. 3 *s* 601 W. 148
- Johnson, P. D. 2 *m* 130 W. 104
- Johnson, R. K. 3 *m* 9 E. 10
- Johnson, R. McL. *nm s*
471 Ridge, Newark
- Johnson, S. T., Jr. 2 *s*
Croton-on-Hudson
- Johnston, E. † 1 *pa*
1272 Boston Road
- Johnston, M. L. † *ph*
68 Kingsland ave., Elmhurst
- Johnston, W. S. 3 *c* 542 W. 112
- Jonas, E. H. † 4 *ed* 430 W. 118
- Jonas, S. S. B. † 2 *b*
515 Cathedral Parkway
- Jones, A. L. † 3 *b* Brooks
- Jones, C. R. 1 *c* 27-4, Woodside
- Jones, D. C., 3d 1 *l*
747 Salem Rd., Elizabeth
- Jones, E. B. † *pl*
272 Chestnut, Nutley
- Jones, E. M. W. 3 *ed* 545 W. 129
- Jones, H. † 4 *ed*
106 Morningside Dr.

Jones, H. E. † 3 *ed* Oradell
 Jones, J. C. *pl* Livingston
 Jones, J. K. 2 *l* 500 W. 122
 Jones, L. † *ph* 430 W. 119
 Jones, M. E. † *ph* 522 W. 183
 Jones, M. T. † *ed* 508 W. 122
 Jones, P. D. † 3 *ed* Whittier
 Jones, R. A. † 3 *ed* 500 W. 122
 Jones, R. H. 2 *l* Furnald
 Jones, R. S. *phar* 115 W. 68
 Jones, V. LeR. 2 *s* 531 W. 113
 Jordan, A. G. † 3 *b* 126 W. 102
 Jordan, D. L. 1 *l*
 81 Hawthorne ave., Yonkers
 Joseph, E. G. 2 *l* 530 Manhattan ave.
 Joseph, L. *fa* 157 W. 123
 Joseph, P. E. 2 *s*
 1222 Boston Road
 Josephson, E. M. 1 *m*
 1330 Franklin ave.
 Joslin, H. † 4 *ed* 503 W. 121
 Joslyn, A. G. † *ed* 525 W. 120
 Journeay, H. † 3 *b*
 Harrison ave., Leonia
 Joveshof, A. 3 *s* 258 W. 136
 Joyce, M. A. † *gr ed* 505 W. 121
 Joyce, M. M. † *pl*
 258-85, Bklyn.
 Jud, F. C. † *p*
 119 Franklin, Jersey City
 Judd, E. F. 4 *ed*
 81 Montague Pl., Montclair
 Judd, Z. *gr ed* Furnald
 Judge, B. M. † 1 *b*
 922 President, Bklyn.
 Judson, A. † 4 *ed* 611 W. 127
 Julian, M. † 4 *ed* 512 W. 123
 Kahn, A. H. *ph*
 1027 DeKalb ave., Bklyn.
 Kahn, C. L. 2 *c* 941 Tiffany
 Kahn, H. 1 *c* 194 Ross, Bklyn.
 Kahn, P. *phar* 1784 Madison ave.
 Kahn, S. 2 *m* 1056 Hoe ave.
 Kahrs, H. J. † 1 *b* 533 W. 141
 Kalb, E. F. † 3 *ed* 540 W. 122
 Kalbfleisch, E. L. 3 *m* 437 W. 59
 Kalsch, F. J. *phar*
 811 Caldwell ave.
 Kaminski, T. C. *phar*
 214-33, Bklyn.
 Kane, D. C. 2 *s* 469-47th, Bklyn.
 Kane, E. A. *gr ed* 448 W. 137
 Kane, F. L. † 1 *pa*
 148 Heyward, Bklyn.

Kane, R. F. 1 *c*
 213 Boerum, Bklyn.
 Kannofsky, R. E. † 1 *b*
 536 Decatur, Bklyn.
 Kanner, L. *phar* 1851 First ave.
 Kantor, M. *phar*
 897 DeKalb ave., Bklyn.
 Kaplan, F. † 4 *ed*
 710 St. Nicholas ave.
 Kaplan, H. *pl* 68 E. 117
 Kaplan, I. I. 4 *m* 16 E. 96
 Kaplan, J. 3 *c* 531 W. 123
 Kaplan, L. D. † 2 *pa*
 710 St. Nicholas ave.
 Kaplan, N. *pl*
 1708 Pitkin ave., Bklyn.
 Kaplan, S. *phar*
 172 McKibben, Bklyn.
 Kapp, R. E. † *ph* 217 W. 110
 Kapplow, M. L. *phar*
 914 Prospect ave.
 Kaps, C. E. † *ed* 421 W. 118
 Karmel, C. E. † *gr ed*
 1499 Vyse ave.
 Karr, L. E. † 1 *b*
 822 De Graw ave., Newark
 Kasanof, D. 1 *s*
 1111 Westchester ave.
 Kashden, H. A. 2 *c*
 788 Flatbush ave., Bklyn.
 Kassie, N. 1 *c*
 532 Willoughby ave., Bklyn.
 Kassner, A. W. C. *phar*
 201 Hillside ave., Jamaica
 Katayama, J. Y. 2 *pa* 469 W. 157
 Kates, G. N. 1 *c* Hotel Ansonia
 Kattigan, T. J. 3 *ed*
 3 Liberty Rd., Englewood
 Katz, A. † *pl* 2666 Briggs ave.
 Katz, E. 4 *m*
 439 Hendricks, Bklyn.
 Katz, H. A. 1 *c*
 289 Saratoga ave., Bklyn.
 Katz, J. F. 1 *l* 76 W. 82
 Katz, M. J. *p* 20 E. 97
 Katz, Y. † 1 *b*
 736 Greene ave., Bklyn.
 Katzen, H. *phar* 1154 First ave.
 Kauffman, H. 4 *c*
 225 State, Hackensack
 Kaufman, J. 1 *m*
 444 Stone ave., Bklyn.
 Kaufman, J. A. 3 *l* 605 W. 115
 Kaufman, J. B. *phar*
 2215 Eighth ave.
 Kaufman, R. *pl* 11 E. 108

- Kaufman, S. 4 *c*
129 Wickliffe, Newark
- Kaufman, W. 4 *s* 168 E. 112
- Kavanagh, J. S. *nm j*
328-73, Bklyn.
- Kearney, L. I. 4 *ed* 157 E. 39
- Keating, J. J. 1 *m* 684 E. 226
- Keator, M. † 4 *ed* Whittier
- Keeler, R. W. *gr ed* 150 Fifth ave.
- Keen, E. L. 3 *l* Livingston
- Keene, C. S. *gr ed* 541 Lexington ave.
- Keil, G. *ph* Furnald
- Keith, M. C. † 3 *ed* 414 W. 121
- Keith, W. † 4 *b* Brooks
- Kelder, J. *gr ed* Coytesville
- Kellam, H. M. *pl* 175 Ninth ave.
- Kelleher, C. 2 *s*
1061 N. B'way, Yonkers
- Kelley, A. E. † 4 *ed* 207 Park Pl., Bklyn.
- Kelley, E. C. V. † 2 *b*
20 Sydney Pl., Bklyn.
- Kelley, L. F. † 3 *b* Brooks
- Kelley, M. F. † *p* Brooks
- Kellner, M. J. † 2 *b*
1538 Union, Bklyn.
- Kells, L. M. *p* 524 W. 123
- Kelly, A. N. † 1 *pa* 132 W. 70
- Kelly, E. G. † 4 *ed*
135 Hamilton Pl.
- Kelly, E. M. 4 *c*
168 Wilson, Bklyn.
- Kelly, F. J. *gr ed* 515 W. 122
- Kelly, J. E. † 3 *ed* 503 W. 121
- Kelly, L. A., Jr. *gr ed* 225 W. 135
- Kelly, M. † 2 *b* Brooks
- Kelly, W. J. 1 *j* Hartley
- Kemp, A. B. † 3 *ed* Whittier
- Kemp, E., Jr. *phar* 41 W. 54
- Kemp, M. D. † *ed* 523 W. 122
- Kemp, P. K. 3 *c* 211 W. 139
- Kemp, W. C. B. *pl* Livingston
- Kempf, N. W. F. 2 *s*
114 Bleecker, Newark
- Kempton, I. T. † 2 *b*
9 Van Cortlandt Park ave.,
Yonkers
- Kendall, B. W. *p* Furnald
- Keneko, G. J. 1 *l* 330 E. 57
- Kennedy, A. T. *phar*
2129 Madison ave.
- Kennedy, A. M. *nm j*
- Kennedy, D. E. 1 *c* 481 Sixth ave.
- Kennedy, D. S. 4 *j* Furnald
- Kennedy, E. F. † *ph*
100 Cathedral Parkway
- Kennedy, M. † 4 *ed*
1024 Hudson, Hoboken
- Kennedy, M. L. † *p*
65 Morningside ave.
- Kennedy, P. A. 4 *ed*
137 Garfield Pl., Bklyn.
- Kennerly, M. M. † *p* 230 W. 101
- Kenny, J. J. 3 *m* 437 W. 59
- Kenny, M. E. † 4 *b*
214 St. Marks ave., Bklyn.
- Kensworthy, B. S. 1 *l* Hartley
- Kent, H. F. † 1 *b* 44 W. 100
- Kent, S. G. 3 *l*
65 Hobart ave., Summit
- Kenvin, T. B. 2 *s*
191 Claremont ave.
- Kenway, F. L. † 4 *ed* Whittier
- Kenyon, G. R. 1 *l*
105 & West End ave.
- Kenyon, H. H. 4 *ed* 525 W. 120
- Kenyon, T. S. 3 *l* 321 W. 82
- Keough, A. C. 3 *l*
974 St. Marks ave., Bklyn.
- Keppler, C. H. J. *nm s* 435 W. 119
- Ker, D. 1 *c* 430 W. 119
- Ker, L. M. † *gr ed* 525 W. 120
- Kerbeck, J. L. *ph*
313 Prospect ave.,
Long Island City
- Kerby, C. E. † 3 *b* Brooks
- Kerby, P. C. 1 *c* 506 W. 113
- Kerley, J. H. 4 *m*
287 Gates ave., Bklyn.
- Kern, F. R. † 3 *ed* 537 W. 121
- Kern, M. 1 *c* 242 W. 122
- Kerr, D. R. 4 *c*
2822 Ave. K, Bklyn.
- Kersey, P. J. 3 *ed* Furnald
- Kerwin, F. C. *nm*
58 Wyckoff, Bklyn.
- Ketcham, H. † 1 *b*
60 Ravine ave., Yonkers
- Ketchum, B. L. † *pl* Nyack
- Ketchum, R. *ph*
15 Grand, White Plains
- Ketchum, R. S. *ph*
15 Grand, White Plains
- Ketels, L. H. *pl*
267 Chadwick ave., Newark
- Keune, E. † *ph*
10 Sherman Pl., Jersey City
- Keuffel, C. W. *p*
610 Hudson, Hoboken
- Kevitz, R. † *nm fa*
674 Georgia ave., Bklyn.
- Keyes, C. M. 4 *c* 522 W. 123
- Keyes, D. B. *p* Furnald

Keys, E. M. † 3 *ed*
69 High, Yonkers

Khuri, H. B. 3 *m* 437 W. 59

Kidd, G. † 1 *b* 512 W. 172

Kidney, C. H. † *gr ed* Whittier

Kiefer, A. A. † 3 *ed* 414 W. 120

Kiefer, K. H. 4 *s* 540 W. 113

Kieffer, G. L. *pl* 600 W. 122

Kierman, E. C. 1 *c* 2461 Elm Pl.

Kiermeier, A. B. † 3 *ed* Deerfield

Kierneff, A. W. *pl* 175 Ninth ave.

Kilbon, R. 4 *j* Furnald

Kilborn, R. C. *fa*
48 Prospect Dr., Yonkers

Kilbourne, K. A. 2 *s* 604 W. 114

Kilburn, H. T. 1 *c* 202 W. 74

Kilenyi, E. *fa* 48 E. 88

Killough, W. H. D. 2 *c*
513-4, Bklyn.

Kilpatrick, G. *nm* 421 W. 118

Kilroe, J. C. 1 *c*
408 Manhattan ave.

Kimball, A. 1 *s* Livingston

Kimball, C. E., Jr. 1 *l*
52 William

Kimball, L. F. 1 *c*
115 Park Pl., Bklyn.

Kimm, W. I. 3 *c* Hartley

Kinane, T. E. *phar* 508 W. 132

Kindred, J. J. *nm j*
616 Madison ave.

King, E. D. *pl*
137 Garfield Pl., Bklyn.

King, E. L. † *gr ed* Whittier

King, F. 2 *s* 326 W. 107

King, H. B. 3 *s* 618 W. 113

King, J. W., Jr. *phar*
292 Pavia ave., Jersey City

King, M. † 2 *b* 1465-51, Bklyn.

King, M. E. † *gr ed*
326 Audubon ave.

King, R. McC. 3 *j*
351 Adelphi, Bklyn.

Kingsley, J. S. *gr ed* 525 W. 120

Kinnam, M. E. 1 *l*
439 West End ave.

Kinnears, H. C. † *ph* 208 W. 69

Kinney, J. A. 4 *c* 164 W. 74

Kinney, M. † *ph* 415 W. 118

Kipp, R. P. 3 *ed*
27 Waller ave., Ossining

Kirch, W. L. 1 *s*
309 Albemarle Rd., Bklyn.

Kirchwey, F. † 3 *b*
800 Riverside Dr.

Kirkpatrick, H. C. 2 *s*
990 Woody Crest ave.

Kirkpatrick, K. H. † *nm fa*
65 Morningside ave.

Kirkwood, T. C. *phar* 115 W. 68

Kirschner, W. L. *phar* 80 W. 82

Kirschstein, J. 4 *s* 222 Henry

Kirwan, H. † 1 *b* 83 Hamilton Pl.

Kisch, E. H. † 2 *pa*
14 Morningside ave.

Kister, F. A. 1 *l*
W. 8, Coney Island

Kitchen, V. C. 2 *j*
94 Prospect, E. Orange

Kladivko, H. 1 *s*
404 9th ave., Long Island City

Klafter, S. H. *ph* 340 E. 15

Klausner, D. M. 2 *c*
401 Hoboken ave., Jersey City

Klausner, I. † 1 *b*
1218 VanAlst ave., Astoria

Kleban, M. 2 *c* 1800 Seventh ave.

Klein, A. J. *pl* 421 W. 118

Klein, C. L. *gr ed* 1128 Clay ave.

Klein, E. 3 *m* 418 E. 5

Klein, H. 1 *s* 360 Beekman ave.

Klein, H. *fa* 26 E. 117

Klein, I. 2 *j* 3905 Third ave.

Klein, K. F. 3 *s* 206 W. 148

Klein, P. *pl* 265 E. 7

Klein, S. 1 *c* 1267 Fifth ave.

Klein, S. H. 1 *s*
20 Tompkins ave., Bklyn.

Klein, S. M. *phar* 151 W. 103

Kleinman, P. *gr ed*
1521 Eastern Parkway, Bklyn.

Klepetko, E. *p* 614 W. 113

Kligler, I. J. *p* 1251 Brook ave.

Kline, R. F. *pl* 175 Ninth ave.

Kling, D. C. † 3 *ed*
480 McDonald, Bklyn.

Klingenstein, P. 1 *c* 102 E. 79

Klingenstein, P. H. 3 *c* 136 E. 79

Klipstein, E. H. *p*
93 Prospect, E. Orange

Klopfer, E. † 2 *b* 316 W. 93

Kloss, A. M. † 1 *b*
90 Albion Pl., Port Richmond

Kloster, W. J. *gr ed*
215 St. Johns Pl., Bklyn.

Klugescheid, W. P. 2 *s*
560 W. 184

Klupt, A. E. 1 *s*
995 Jefferson ave., Bklyn.

Knapp, A. M. † *pl*
4651 Fulton, Richmond Hill

Knapp, C. M. 4 *c* 627 W. 113

Knapp, H. E. † 2 *pa* Buchanan

Knapp, L. P. *gr ed* Nutley

- Knauth, A. W. 2 *l* 302 W. 76
 Knauth, O. W. *pl* 302 W. 76
 Kneeland, H. † *gr ed* 970 Park Pl., Bklyn.
 Knevitt, C. H. *phar* Larchmont
 Kniffen, A. C. † 3 *ed* 50 Central ave., Mariner's Harbor
 Knight, E. C. *ph* 401 W. 118
 Knight, H. A. 4 *j* Livingston
 Knight, L. B. † 3 *ed* 420 W. 121
 Knight, S. H. *p* Furnald
 Knopf, S. H. 3 *s* 1476 Stebbins ave.
 Knote, F. C. 1 *c* 1 W. 72
 Knox, J. P. 1 *c* 422 E. 144
 Knox, M. † *gr ed* 243 Washington, Glen Ridge
 Knox, W. J., Jr. *nm c* 612 W. 112
 Knuth, H. G. 4 *c* 565 W. 113
 Kobayashi, J. H. *ph* 175 Ninth ave.
 Kobayashi, R. *pl* 512 W. 122
 Koch, M. K. † 1 *b* 17 Bergen Pl., Jamaica
 Koch, P. *nm c* 568 Palisade ave.,
 Weehawken Hts.
 Kodet, E. J. *phar* 404 E. 71
 Koehler, H. R. *p* 37 State, Bloomfield
 Kohler, F. D. 3 *l* Furnald
 Kohn, A. *phar* 78 E. 22, Bayonne
 Kohn, A. Z. *fa* 220 E. 86
 Kohn, C. † 1 *b* 107 W. 120
 Kohn, J. 1 *m* 107 W. 120
 Kojima, S. *ph* 175 Ninth ave.
 Kolars, M. B. † 3 *j* 532 W. 145
 Kolshorn, A. M. † 3 *ed* Whittier
 Kolshorn, H. C. † 4 *ed* Whittier
 Kominz, J. S. 4 *m* 2 E. 115
 Konarski, M. M. 4 *c* 370 W. 120
 Kong, A. F. J. † 3 *b* 419 W. 110
 Konovitz, L. M. † 1 *b* 416 Grand
 Koon, J. I. 4 *j* 420 W. 121
 Korkus, E. F. 1 *c* 193 Tompkins ave., Bklyn.
 Kornsand, E. S. 2 *c* 1229 Park ave.
 Kosig, G. *nm l* 364 Bergen, Newark
 Köster, A. E. H. *nm c* 110 E. 126
 Koss, I. G. † *pl* 628 West End ave.
 Kottek, H. 4 *c* 17 W. 70
 Koukol, C. J. 4 *s* 52-11, Elmhurst
 Krackov, H. L. 1 *s* 1808 Nostrand ave., Bklyn.
 Krakow, M. H. 4 *m* 1497 Madison ave.
 Kramer, B. S. 3 *m* 1459 Madison ave.
 Kramer, J. † *ed* 415 W. 145
 Kramer, K. † *phar* 403 W. 49
 Kramer, S. 2 *l* Hartley
 Krandle, H. M. 2 *c* 435 Sackman, Bklyn.
 Krasnow, F. † 1 *b* 46 S. 9, Bklyn.
 Krasnow, L. *phar* 251 S. 3, Bklyn.
 Kraus, E. 1 *s* 77 W. 85
 Kraus, F. 1 *c* 508 E. 89
 Kraus, W. F. 3 *s* 508 E. 89
 Kraus, W. M. *p* 141 W. 75
 Krause, E. † 3 *b* 260 W. 72
 Krause, G. † 1 *b* 260 W. 72
 Kravzoff, A. 4 *c* 1093 Gates ave., Bklyn.
 Krechevsky, M. *phar* 484 Grand
 Krefeld, W. J. 4 *s* 74 W. 102
 Kreiner, H. P. *ph* 224 Broad, Newark
 Kreiner, L. M. † *ph* 224 Broad, Newark
 Kreps, C. S. † *ed* 525 W. 120
 Kretzmer, J. 1 *s* 552 W. 184
 Kreykenbohm, C. † 3 *ed* 910 S. Second ave., Mt. Vernon
 Krier, D. A. † 3 *b* 267 Fenimore, Bklyn.
 Krimke, C. J. *phar* 1704 Lexington ave.
 Krinsky, H. J. P. † 3 *b* 88 Elliott ave., Yonkers
 Krolfifer, J. F. *pl* 57 W. 124
 Kronos, B. *phar* 184 Passaic, Passaic
 Krueger, M. † 4 *ed* 537 W. 121
 Krulewitch, M. L. 2 *c* 422 W. 102
 Kruo, J. M. 1 *s* 696 Bedford ave., Bklyn.
 Kuang, Y. C. *p* Livingston
 Kubie, D. L. † 3 *ed* Wave Crest, Far Rockaway
 Kuchar, J. J. 2 *s* 341 E. 73
 Kudlich, L. H. † 1 *pa* Whittier
 Kudlich, R. A. † *gr ed* 104 W. 87
 Kueny, F. J. *ph* 511 W. 122
 Kuetsensky, L. *ph* 600 W. 122
 Kugler, A. A. † 3 *ed* 441 E. 134
 Kuh, E. P. † *nm fa* 587 Riverside Dr.

Kuhlmann, A. E. 4 *m*
 527 Union Pl., Union
 Kuhn, I. 4 *c* 1189 Boston Rd.
 Kuki, I. *gr ed* 401 W. 118
 Kunzman, I. 3 *l* Hartley
 Kuo, P. *gr ed* 501 W. 121
 Kupfer, H. † 2 *pa* 230 W. 97
 Kupfer, J. † 1 *b* 240 W. 102
 Kupfer, M. P. 2 *c* 71 E. 96
 Kupfer, W. S. *ph* 20 Greene
 Kurtz, E. *gr ed* 424 W. 115
 Kurtz, J. 1 *c* 117 Cannon
 Kurz, H. *ph* 507 W. 113
 Kurz, J. B. 4 *s*
 105 Throop ave., Bklyn.
 Kush, E. T. † *ph*
 Rockaway Park
 Kuttner, A. G. † 3 *b* 501 W. 113
 Kysor, M. † 3 *ed*
 127 N. 3, Newark
 Lacazette, A. A. 3 *s* Furnald
 Lachmann, H. R. † 3 *b* 420 W. 121
 Lackey, W. T. *nm l* 540 W. 113
 La Corte, S. F. 4 *c* Hartley
 Lacy, P. S. *fa* 411 W. 115
 Ladd, W. S. 3 *m* 260 W. 72
 La Dow, S. V. *pl* 610 W. 116
 LaFountain, M. A. † 1 *b*
 176 James, Hackensack
 Laguardia, C. J. B. 2 *c*
 371 Pleasant ave.
 Laguardia, G. 4 *c* 439 E. 118
 Laguardia, G. B. 3 *s* 439 E. 118
 Lahey, W. S. 4 *j*
 520 Summit ave., Jersey City
 Lake, H. M. *gr ed* 215 W. 123
 Lahm, W. 1 *s* 57 E. 15, Bklyn.
 Lam, I. C. 3 *ed* Furnald
 Lamade, G. R. 2 *c* Furnald
 Lamb, H. A. 2 *c* 356 W. 22
 Lambert, A. *phar*
 1730 Norman, Bklyn.
 Lambert, E. G. † 3 *b*
 225 Rich ave., Mt. Vernon
 Lambert, J. † 3 *ed*
 1025 Lexington ave.
 Lambert, N. D. 2 *s*
 295 Wyona, Bklyni.
 Lambie, M. † *ph* 419 W. 119
 Lamont, F. † *ph* Englewood
 Lamothe, A. P. *gr ed* 132 E. 87
 Lamport, A. † *gr ed*
 1352 Clinton ave.
 Lamprecht, S. P. *ph* 600 W. 122
 Landau, L. S. 1 *j*
 119 & Lenox ave.

Landau, M. 1 *s*
 540 Grand ave., Leonia
 Landis, W. B. 3 *l* 633 W. 115
 Landman, E. S. 4 *s* 242 W. 104
 Landon, M. L. † *p* Brooks
 Landreth, M. E. † 4 *ed* Whittier
 Landriene, M. † 2 *pa* Maywood
 Landy, G. *pl* 111 Attorney
 Landy, J. A. 4 *m* 2948 Third ave.
 Lane, G. L. † *pl* 135 E. 52
 Lane, L. B. 2 *s* 540 W. 113
 Langdon, A. C. † 2 *pa* Whittier
 Langdon, A. N. 1 *c* Farnald
 Langdon, H. K. † 2 *b* Brooks
 Langdon, M. C. † *ph*
 Englewood Cliffs
 Lange, W. 2 *s*
 952 St. Nicholas ave.
 Langenhan, H. O. *nm fa* Farnald
 Langfield, S. H. † 2 *pa* Whittier
 Langman, H. *p* 417 Elton, Bklyn.
 Langthorn, J. S., Jr. 1 *c* Hartley
 Langton, W. S. *p* 111 W. 126
 Lansing, Mrs. H. P. † 4 *ed*
 1090 Amsterdam ave.
 Lansing, K. P. † 4 *ed* 501 W. 123
 Lantz, G. † 3 *ed* 430 W. 119
 Lanzetta, J. J. 1 *s* 2252 First ave.
 Lapham, M. B. † 3 *ed* Whittier
 Lapidus, A. 4 *s* 302 W. 112
 La Pierre, L. S. *fa*
 1090 Bushwick ave., Bklyn.
 Laphume, J. 1 *s*
 1297 Amsterdam ave.
 Larossa, A. *phar* 230 Mott
 Larremore, T. A. 1 *l* 324 W. 103
 Larsen, H. M., Jr. 4 *m*
 240 Rutland Road, Bklyn.
 Larson, B. S. † 4 *ed*
 120 & Amsterdam ave.
 LaSalle, D. M. † 1 *pa* 330 W. 85
 Lasher, J. K., Jr. 4 *c* 627 W. 115
 Lasher, W. R. *p*
 825 Argyle Road, Bklyn.
 Lasher, W. W. 3 *m*
 827 Lexington ave.
 Lashman, L. E. 3 *ed* 318 W. 126
 Latenser, F. J. *fa* 429 W. 117
 Latham, M. L. † *p* 512 W. 123
 Latham, M. W. *ph* 401 W. 118
 Lathrop, M. A. † *ph*
 67 Greenwood ave., Montclair
 Lathrop, T. S. 4 *s* 618 W. 113
 Lattman, J. 1 *m*
 1493 Madison ave.
 Latzke, P. † *ph* 501 W. 111
 Lau, R. F. *ph* 175 Ninth ave.

- Lauber, H. C. 3 s 608 W. 113
 Laubscher, O. P. 2 s Furnald
 Laurier, C. 2 c Furnald
 Lauterbach, B. † 4 ed 205 W. 103
 Lavery, P. E. 3 l 429 W. 117
 Law, C. E. † 4 ed
 444 S. Second ave., Mt. Vernon
 Law, R. † pl 416 W. 122
 Law, M. R. † 1 pa
 444 S. Second ave., Mt. Vernon
 Lawler, J. R. 1 s
 238 Corlies ave., Pelham
 Lawler, M. H. † 4 b
 114 Morningside Dr.
 Lawrence, I. † pl
 758 Ocean ave., Bklyn.
 Lawrence, R. † 1 b
 599 Bedford ave., Bklyn.
 Lawrence, W. ph 600 W. 122
 Lawson, L. A. pl Kenilworth
 Lawton, K. M. † 1 pa Whittier
 Lawton, L. H. S. † ed
 95 Essex, Hackensack
 Lawton, W. A. † 3 ed
 250 Sherman ave.
 Lazarus, A. 3 c
 293 Knickerbocker ave., Bklyn.
 Lazarus, J. A. 1 m
 1399 Madison ave.
 Lazarus, S. M. 2 l
 61 Hamilton Place
 Leary, W. D. 2 j 36 W. 97
 Leavell, A. L. † ph
 Lechner, L. phar 303 W. 133
 Leding, R. H. 1 c 114 W. 73
 Lee, A. S. gr ed 525 W. 120
 Lee, C. E. † gr ed 136 E. 122
 Lee, E. A. gr ed 525 W. 120
 Lee, Mrs. E. A. † gr ed
 102 Convent ave.
 Lee, J. C., Jr. 1 c 248 W. 127
 Lee, L. V. 4 s 616 W. 113
 Lee, M. † 1 b 53 Bayard
 Lee, P. R. pl 105 E. 22
 Lee, R. L. phar
 231 North, Middletown
 Lee, S. D. gr ed Furnald
 Lee, T. L. 2 s 106 W. 109
 Leede, H. E. H. 1 c
 201 Madison ave., Tompkinsville
 Leet, D. † 1 b 409 W. 129
 Leet, H. † 1 b 409 W. 129
 Lefler, M. M. phar
 1497 Madison ave.
 Leffler, K. † 3 ed 68 W. 88
 Lefler, M. R. 3 ed Perth Amboy
 Leftwich, B. C. † 4 ed Whittier
 Leftwich, M. W. † 4 ed Whittier
 Legate, A. F. † 4 ed
 687 E. 26, Paterson
 Leggett, J. D. pl
 148 Arnold, New Brighton
 Leggett, T. H., Jr. 4 c Hartley
 Lehman, E. 4 c 236 W. 138
 Leiner, J. 4 c 155 Audubon ave.
 Leiper, H. S. ph 600 W. 122
 Leistner, I. † ph 916 Bryant ave.
 Leland, S. R. gr ed Buchanan
 Lellmann, W. O. L. 4 m
 215 W. 98
 Lemelson, J. 1 c
 666 Bay, Stapleton
 Lemkan, J. H. pl 600 W. 122
 Lemmon, W. S. 1 s 319 W. 94
 Lenihan, M. M. † 2 pa
 199 Montgomery ave.,
 Laurel Hill
 Lennon, M. † 1 b
 N. B'way & Tompkins ave.,
 Yonkers
 Lent, E. phar 155 W. 68
 Lent, F. S. phar
 911 Elm, Peekskill
 Lentz, F. † gr ed
 106 Morningside Dr.
 León, T. C. fa 1878 Seventh ave.
 Leonard, B. F. 3 ed
 636 Parker, Newark
 Leonard, C. F. 3 c
 35 Murray, Flushing
 Leonard, E. † 3 pa 19 W. 120
 Leonard, R. J. gr ed
 181 Claremont ave.
 Lerner, B. phar
 508 Grand, Hoboken
 LeRoi, O. † 4 ed Whittier
 Leroi, E. † ph 50 W. 129
 Leshensky, H. W. 1 s 306 E. 119
 Leslie, R. fa 2768 B'way
 Leuch, E. A. † 3 ed
 64 Downing, Bklyn.
 Levene, H. gr ed 43 W. 112
 Levering, B. S. ph 175 Ninth ave.
 Leveritt, J. † 3 pa 537 W. 123
 Levi, R. E. † 3 b
 925 West End ave.
 Levie, M. J. 1 c 200 W. 11
 Levin, H. 1 c 41 Main, Yonkers
 Levin, J. 1 c 51 Osborne, Bklyn.
 Levin, J. J. 1 c 115 W. 114
 Levin, M. phar
 95 Howard, Newark
 Levin, N. phar 189 E. 100

Levine, I. B. 2 c
456 Marcy ave., Bklyn.
Levine, M. *phar* 741 Jennings
Levine, M. R. *phar* 9 E. 107
Levine, S. *phar*
316 Hinsdale, Bklyn.
Levine, S. *phar*
34 Jefferson, Paterson
Levine, T. † *phar* 9 E. 101
Levine, V. E. *p*
164 Havemeyer, Bklyn.
Levinsky, A. 2 c 326 Tenth ave.
Levinson, D. D. 1 l 128 W. 128
Levinson, E. F. † 2 b
Park Hill, Yonkers
Levinson, S. J. 3 l
372 Wallabout, Bklyn.
Levit, M. L. † *phar* 47 W. 129
Levy, A. H. † 4 *pa* 620 W. 115
Levy, A. S. *phar* 826 Kelly
Levy, D. M. 4 *pa*
1816 Madison ave.
Levy, D. S. 3 j Hartley
Levy, E. † *Sp b* 52 E. 87
Levy, J. 3 m
709 Bushwick ave., Bklyn.
Levy, J. 3 s 1064 Franklin ave.
Levy, J. I. 1 s
679 Avenue C, Bayonne
Levy, L. 3 s 107 W. 122
Levy, M. 3 l
1366 St. Nicholas ave.
Levy, M. F. 1 c
709 Bushwick ave., Bklyn.
Levy, M. R. † 2 *pa* Whittier
Levy, R. † 1 b Brooks
Levy, T. † 1 b 1472 Bryant ave.
Levy, T. J. † 2 b 1893 Seventh ave.
Lew, T. T. 2 c 512 W. 122
Lewin, G. J. 1 s
718 St. Marks ave., Bklyn.
Lewin, S. † 1 b 1318-55, Bklyn.
Lewine, C. † 3 b 116 E. 78
Lewis, C. L. 2 l 124 E. 81
Lewis, E. † 1 b 664 E. 160
Lewis, E. D. *pl* 507 W. 113
Lewis, E. L. † 3 *ed*
44 Essex, Bklyn.
Lewis, E. N. *nm j* 616 W. 113
Lewis, K. M. 1 c Short Hills
Lewis, R. 3 l Fernald
Lewis, R. W. 3 m 421 W. 57
Lewis, S. *nm l* 1 W. 64
Libbin, T. J. *ph* 419 W. 121
Liberthson, L. 1 s
110 Riverdale ave., Yonkers

Liccione, W. T. M. 1 c
101 Mt. Vernon ave., Mt. Vernon
Lichao, A. F. *p* Hartley
Licht, I. J. 3 *ed*
131 Tompkins ave., Bklyn.
Lichtenstein, A. 1 c
929 West End ave.
Lichtenstein, A. G. *phar* 47 W. 112
Lichtenstein, H. † 3 b
22 Morningside ave.
Lichtenstein, J. V. † 1 b
1120 Hudson, Hoboken
Lichtenstein, L. 4 s
165 E. 4, Bklyn.
Liebermann, E. † 3 *ed*
52 Warrington Pl., E. Orange
Liebowitz, B. *p* 31 W. 89
Liesenfeld, S. 1 c 419-6
Lifshitz, M. † *phar* 33 Avenue C
Ligorio, C. *phar* 49 Renwick
Lilley, J. L. 2 l 527 Riverside Dr.
Lilly, C. C. *pl* 600 W. 122
Lincoln, E. B. † 1 *pa* Whittier
Lincoln, L. † 3 b 72 W. 124
Lind, J. J. *ph* 45 Floyd, Bklyn.
Lindeman, L. J. † *phar* 24 W. 112
Lindholm, E. M. † 1 *pa* Whittier
Lindley, A. H. 3 l 500 W. 122
Lindner, A. F. *nm fa* 423 E. 169
Lindsay, J. S. † *ph* 334 W. 47
Lindsay, M. † 1 b 235 E. 35
Lindsley, G. *fa* Livingston
Linehan, P. H. *p* 607 W. 138
Linett, J. L. 1 m
2326 Seventh ave.
Lingle, J. R. † *gr ed*
541 Lexington
Lingo, Z. † 1 b Brooks
Lintz, J. 4 c
907 St. Marks ave., Bklyn.
Lion, H. S. 2 c 349 Central Pk. W.
Lione, J. *phar* 107 Christopher
Lipman, L. H. 2 c 58 W. 57
Lippin, S. D. *phar* 30 W. 116
Lipschutz, L. *pl*
983 Glenmore ave., Bklyn.
Lipson, F. B. † 3 *ed* 417 W. 121
Liss, S. S. 1 s 1338 Teller ave.
Littauer, E. V. 1 c
714 Bushwick ave., Bklyn.
Littaye, F. L. † 3 *ed*
197 Morris ave., Summit
Little, C. † 3 *ed*
269 Union ave., Paterson
Little, E. H. † *gr ed* 504 W. 112
Little, F. K. *pl*
420 Riverside Dr.

- Little, J. T. 2 l
 1911 Crotona ave.
 Little, W. D. 3 j 418 W. 118
 Liu, T. T. 1 c
 Livermore, M. J. † 3 ed
 Rochelle Pk., New Rochelle
 Livingston, G. C. † 1 b
 226 Edgecombe ave.
 Livingston, R. R. 2 l
 11 N. Washington Square
 Livingston, S. M. 1 l
 932 Hoe ave.
 Livingston, W. S., Jr. 3 s
 161 E. 36
 Lobdell, R. B. † 3 ed Whittier
 Lobsenz, J. † ph 233 W. 122
 Lobsenz, M. † 3 ed 233 W. 122
 Lockhart, A. I. gr ed
 195 Claremont ave.
 Loden, H. phar
 Hastings-on-Hudson
 Lodge, M. † ph
 Loesch, H. G. 3 c
 1931 Linden, Bklyn.
 Loescher, E. fa Harrison
 Loewy, M. B. 2 c
 1251 Garden, Hoboken
 Logan, C. E. † gr ed Bordentown
 Logan, C. T., Jr. 1 c 429 W. 117
 Login, C. ph 119 E. 86
 Lokker, M. C. † Sp b Brooks
 Lombard, R. H. p Livingston
 Lombardi, A. fa 168 Lenox ave.
 London, B. † 3 ed Whittier
 Londono, R. 1 s 159 W. 80
 Long, B. F. 3 ed Englewood
 Long, D. † ph
 42 Lenox Road, Bklyn.
 Long, R. V. gr ed Furnald
 Long, S. V. † ph 435 W. 119
 Lonigan, M. E. † 2 b
 842 Hancock, Bklyn.
 Look, H. W. 1 s
 336 E. 19, Flatbush
 Looram, M. M. 1 s
 Davenport Neck, New Rochelle
 Lora, G. † phar Whittier
 Lord, C. S. phar 75 W. 68
 Lorentz, M. M. 4 c
 596 Monroe, Bklyn.
 Lorenz, C. R. † 2 b 168 W. 81
 Lorenz, R. H. 1 c 168 W. 81
 Los Kamp, H. D. 3 c 536 W. 114
 Lott, M. C. † 1 b
 99 Hardenbrook ave., Jamaica
 Lotz, E. † ph
 121 Weirfield, Bklyn.
- Louis, S. M. 3 l 239 W. 141
 Louria, E. † 3 b
 Louria, H. W. 2 c 249 Hewes, Bklyn.
 249 Hewes, Bklyn.
 Love, J. W., Jr. 3 c 204 W. 110
 LoVece, N. phar 193 Grand
 Lovejoy, C. E. nm j Furnald
 Lowell, R. T. S. nm s Furnald
 Lowenstein, G. A. p
 201 E. B'way
 Lowery, M. L. ph Livingston
 Lowndes, B. † 1 b
 19 Wallace ave., Mt. Vernon
 Lowndes, E. † 4 ed
 19 Wallace ave., Mt. Vernon
 Lowrey, L. T. pl Livingston
 Lowson, J. L. † gr ed Whittier
 Lozaw, F. A. phar Middletown
 Lubarsky, D. A. 4 m 2131 B'way
 Lubarsky, L. H. pl 522 W. 112
 Lubetkin, M. † 2 b 111 E. 95
 Lucas, A. F. G., Jr. 2 s
 Livingston
 Luccock, E. † gr ed Whittier
 Luccock, N. † 4 ed Whittier
 Lucey, L. † 2 b Brooks
 Luck, C. fa 614 W. 113
 Luckings, A. P. † 1 b
 851 Amsterdam ave.
 Luft, C. L. † 3 ed
 1012 Manhattan ave., Bklyn.
 Luk, S. C. 2 s Hartley
 Lukashok, J. G. 2 s
 1397 Stebbins ave.
 Luken, H. H. pl Hartley
 Lull, S. R. † 2 b
 25 Overlook Ter., Yonkers
 Lum, S. C., Jr. 3 s Elizabeth
 Lund, J. gr ed 425 W. 124
 Lundell, M. A. † 4 ed Whittier
 Lundborg, H. C. 4 s 61 Church
 Lunger, C. V. † 2 pa Whittier
 Lunt, F. S. gr ed 527 W. 124
 Lupton, R. E. 3 l 416 W. 118
 Lyle, G. † ed
 1115 Amsterdam ave.
 Lyman, F. † 4 ed Whittier
 Lynch, F. D. phar
 1907 Madison ave.
 Lynch, H. A. ph 600 W. 122
 Lynch, J. A., Jr. 4 c
 250 Willis ave.
 Lynch, L. R. pl 217 W. 104
 Lyon, B. R. 3 m 437 W. 59
 Lyon, C. S. 2 l Furnald
 Lyon, L. L. † 3 ed Whittier

Lyons, H. F. † 3 *ed*
106 Morningside Dr.
Lyons, L. V. 1 *m* 50 E. 63
Lyons, S. † 4 *ed* Whittier

McAllister, M. H. † 1 *pa* Whittier
McAnney, B. O. 4 *j* Furnald
McAvoy, P. T. 1 *l* 522 W. 123
McBride, E. D. 4 *m* 515 W. 184
McBride, W. A. *phar* 117 W. 64
McCall, W. A. *gr ed* Livingston
McCallum, J. D. 4 *c*
625 Bloomfield ave., Nutley
McCallum, K. L. 2 *c*
145 Penn, Bklyn.

McCann, D. F. 4 *m*
312 Avenue C, W. Bklyn.

McCarthy, A. E. † 3 *ed* Whittier
McCarthy, T. 1 *s* 335 Gunhill Rd.
McCartney, F. G. † *pl* 420 W. 121
McClees, H. † *ph* 420 W. 119
McClellan, C. † *ph* 523 W. 122
McClenahan, J. S. *nm s* Livingston
McClintock, A. C. † *pl* 135 E. 52
McClure, C. W. *pl* Madison
McClure, E. G. † 4 *ed* 24 W. 12
McClure, W. M. *pl* Furnald
McConnell, G. 2 *s* 435 W. 117
McCorkle, J. † *gr ed*
370 Convent ave.

McCormick, J. K. 2 *l* 237 E. 48
McCormick, M. E. H. † 4 *pa* Whittier
McCormick, P. J. *fa* 237 E. 48
McCormick, S. H. † *nm pa*
417 W. 120

McCowan, A. M. † 4 *ed* Whittier
McCoy, G. T. 2 *s* Livingston
McCoy, J. P. *gr ed* 431 W. 121
McCoy, Mrs. J. P. † 4 *ed*
431 W. 121

McCracken, R. W. 2 *c*
842 Lafayette ave., Bklyn.

McCray, L. M. 1 *s* 404 W. 116
McCready, J. D. 1 *c*
345 State, Bklyn.

McCrodden, E. V. † 4 *b*
103 E. 112

McCurry, D. E. *pl*
2409 Grand ave.

McDaniel, J. E. *ph* Hartley
McDermott, M. † 3 *ed* Whittier
McDermut, R. L. † 3 *pa*
127 Park ave., Leonia
McDonald, L. L. † 4 *pa* Whittier

McDonald, R. A. F. *gr ed*
3115 B'way

McDonnell, J. H. *fa* 370 W. 120
McDowell, L. S. † 4 *ed* 416 W. 118
McDowell, R. P. 1 *l* Furnald
McDuff, D. 2 *l* 3120 B'way
McElhinny, J. J. 3 *c* 142 W. 131
McElvare, G. G. 3 *m*
231 Decatur, Bklyn.

McElvare, R. R. *pl*
231 Decatur, Bklyn.

McEntegart, C. † 1 *b* 358 W. 51
McEvoy, A. F. 1 *c*
2692 Creston ave.

McEvoy, L. † 3 *ed* Whittier
McEwen, R. S. *p* Livingston
McFall, R. J. *pl* 3133 B'way
McFarland, A. H. 3 *m* 437 W. 59
McFarland, A. P. *fa* Hartley
McFerson, C. R. 2 *l*
655 Salem Rd., Elizabeth

McGoldrick, A. L. † *gr ed*
Hotel St. George, Bklyn.

McGough, F. J. † 4 *ed*
186 Chrystie

McGranaghan, T. *phar* 115 W. 68
McGrath, J. G. † *p* 114 E. 117
McGreen, F. A. 4 *m* 437 W. 59
McGrew, J. C. *nm s*
473 Pacific, Bklyn.

McGuire, G. A. † 4 *ed* Whittier

McHale, W. 2 *c* 542 W. 162
McHargue, W. R. 1 *c* 103 W. 119
McHenry, M. B. † 3 *ed* Whittier
McIndoe, J. F. *phar* 115 W. 68
McIndoe, J. G., Jr. *phar*
115 W. 68

McIntosh, R. F. 1 *s* 616 W. 113
McIntyre, G. L. † *ed* 527 W. 121
McKay, I. † 3 *ed*
100 Morningside Dr.

McKean, H. 3 *ed* 530 W. 123
McKelvy, J. † 2 *pa*
311 Webster ave., Jersey City

McKelvey, W. T. 3 *ed* Hartley
McKelvy, R. † 2 *b*
Spuyten Duyvil

McKenna, J. A., Jr. 3 *s* 604 W. 114
McKenna, W. W. 1 *c*
235 McDonough, Bklyn.

McKenzie, I. † *pl*
67 Lenox ave., E. Orange

McKeon, J. W. 1 *c*
112 Fulton ave., Astoria

McKeon, M. M. † *ph* 64 E. 123
McKinless, R. 1 *c* 565 W. 113
McKinnon, J. 2 *l* Livingston

- McKnight, T. L. 3 *ed*
Central Valley
- McLane, F. M. † *gr ed* 525 W. 120
- McLaughlin, G. M. † 4 *ed*
951 Morris ave.
- McLaughlin, J. B., Jr. *nm l*
353 W. 119
- McLaury, H. E. H. † *gr ed*
27 W. 129
- McLean, M. † *pl* 622 W. 137
- McLean, M. L. † *gr ed* 415 W. 118
- McLean, O. C. † *l* 419 W. 118
- McLendon, P. A. 3 *m* 359 W. 57
- McLeod, A. A. † *ph*
80 Lenox Rd., Rockville Centre
- McLester, F. C. † 4 *ed* Whittier
- McMillan, G. † 3 *ed* 414 W. 120
- McMillin, F. E., Jr. † *s*
431 W. 117
- McMurray, M. Q. † 2 *b*
149 Lincoln ave., Rockville Centre
- McNamara, J. G. † *l* 129 W. 90
- McNatt, F. † 3 *ed* 525 W. 120
- McNaughton, F. F. 4 *j*
522 W. 123
- McNeely, B. H. † *pl* 503 W. 121
- McNeile, H. J. 2 *m*
68 Patchen ave., Bklyn.
- McNulty, D. S. 4 *c* 420 W. 130
- McPherson, O. H. *ph* 417 W. 114
- McQuillen, P. W. † *l*
119 High, Passaic
- McSheehy, F. B. *phar* 34 W. 61
- McTighe, M. † 3 *b*
246 Manhattan ave.
- McVickar, H. I. † 4 *b*
269 N. Fulton ave., Mt. Vernon
- Maass, H. † *s*
252 Greene ave., Bklyn.
- Mabon, R. V. † *Sp b*
Wards Island
- Maby, A. C. *nm l* 500 W. 122
- MacAdam, J. K. 2 *l* 329 E. 42
- MacCarthy, C. F. 4 *s* 429 W. 117
- Macauley, F. R. *pl*
Amsterdam ave. & 120
- Macauley, E. I. † 3 *b* 328 E. 124
- MacCormack, J. R. † 4 *ed*
439 W. 162
- Macdonald, F. 4 *s* 510 W. 113
- MacDonald, H. E. † 3 *b* 219 E. 50
- MacFarland, E. M. † *pl*
135 E. 52
- Mackay, I. † 4 *ed*
100 Morningside Dr.
- MacKay, J. A. † *gr ed* Whittier
- MacKay, J. K. † *gr ed*
88 Prescott ave.
- Mackay, J. T. † *pl* 522 W. 123
- Mackenzie, J. † *nm b*
Dobbs Ferry
- Mackenzie, R. † *c* 26 Jones
- Mackey, M. † 1 *b* 159 W. 103
- Mackey, R. J. 3 *l* 418 W. 118
- Mackie, S. W. † *s* Hartley
- MacKirdy, E. † 3 *ed*
498c Jefferson ave., Bklyn.
- Macklin, E. C. *ph* 600 W. 122
- Mackzun, H. † *pl* 529 W. 123
- MacLachlan, H. J. 2 *c*
87 N. B'way, Yonkers
- MacLay, W. C. † *pl* 416 W. 122
- MacLean, D. A. † 4 *b*
318-74, Bklyn.
- MacLeod, G. † *p*
177 Emerson Pl., Bklyn.
- Macmillan, H. 2 *s*
313 Webster ave., Jersey City
- MacNair, I. P. † *c* 604 W. 114
- Macomber, H. C. *gr ed*
Chappaqua
- Macpeak, M. A. † *pl* 67 E. 127
- Mac Rossie, A. A. 3 *c* 429 W. 117
- MacRury, A. G. *pl* 600 W. 122
- MacRury, J. A. *pl* 600 W. 122
- Madden, J. B. *phar* 155 W. 68
- Maddow, D. † 1 *b*
157 Grove, Passaic
- Magee, J. F. *nm s* Hartley
- Maggio, M. A. *phar* 192 Spring
- Magid, F. † 2 *b*
1740 E. 19, Bklyn.
- Magnette, J., Jr. 4 *c*
19 Triton Ter., Newark
- Mahler, A. B. † *ph*
1970 Hughes ave.
- Mahler, P. † *s* 602 E. 169
- Mahon, E. J. 2 *c* 442-61, Bklyn.
- Mahon, H. W. 2 *m*
1498 Bryant ave.
- Mahoney, C. K. *ph* Madison
- Mahoney, J. *ph* 416 W. 118
- Maitland, M. O. † 2 *pa*
211 Glen ave.
- Malachovsky, S. *phar* 810 E. 165
- Malisoff, W. 2 *c*
545 Bushwick ave., Bklyn.
- Mallett, J. R. 3 *c*
910 Albemarle Rd., Bklyn.
- Mallory, V. S. 4 *c*
820 Van Buren Pl., N. Durham
- Mallory, W. H. † *s* Furnald

Maltby, L. H. † 4 *ed* Whittier
 Mamelok, L. 2 *m* 196 Clinton
 Mampel, C. J. 4 *s* 211 W. 107
 Manchester, Mrs. M. I. † *gr ed*
 508 W. 122
 Mandel, S. *gr ed*
 170 Riverdale ave., Bklyn.
 Mandell, A. J. E. 4 *c* 524 Grand
 Mander, M. J. † *nm b* Whittier
 Mandeville, S. E. 1 *m* 233 W. 128
 Mandle, H. H. 4 *s*
 Hotel Brunswick, Madison ave.
 Manès, R. F. A. 4 *s* 6 W. 107
 Manges, H. S. 1 *c* 120 W. 86
 Mango, L. V. *phar* 331 E. 34
 Mannheim, Mrs. Z. C. † 3 *ed*
 69 E. 92
 Manice, W. D. 3 *l* 6 W. 53
 Mankiewicz, F. *ph*
 2711 Decatur ave.
 Mankiewicz, H. J. 1 *c*
 2711 Decatur ave.
 Mann, E. † 4 *pa* Whittier
 Mann, L. R. 1 *j* 541 W. 124
 Mann, L. T. 2 *m*
 7420-13 ave., Bklyn.
 Mann, M. L. † 3 *b* 420 W. 121
 Manning, C. A. *ph* 144 E. 74
 Manning, G. A. *gr ed* Livingston
 Mahning, J. 1 *s* Hartley
 Manock, M. † 2 *pa* 414 W. 118
 Mansbach, P. P. 1 *c* Hartley
 Mansback, I. E. *nm l*
 460 Riverside Dr.
 Manser, R. B. † 4 *b*
 12 Shady Side, Summit
 Mantell, L. R. † 1 *pa* 509 W. 121
 Marashlian, H. S. *phar* 145 W. 117
 March, L. M. † 3 *ed* 420 W. 121
 Marcus, B. K. 3 *l*
 315 Riverside Dr.
 Marcus, L. 3 *c*
 406 Sackman, Bklyn.
 Mardfin, V. H. *pl* 125 Fifth ave.
 Margold, C. W. 2 *c*
 248 Snediker ave., Bklyn.
 Margolies, C. W. *phar* 31 Essex
 Margon, S. 3 *s* 818 E. 166
 Margoshes, S. *gr ed* 1300 Chisholm
 Margulies, I. 1 *c*
 63 McKibben, Bklyn.
 Margulis, G. *phar* 370 W. 29
 Mariano, J. 2 *c* 349 W. B'way
 Marianowsky, J. *phar*
 310 S. 4, Bklyn.
 Markel, L. 4 *j* 1119 Forest ave.
 Markowitz, M. *phar* 667 Fox

Marks, A. D. 3 *l*
 89 Willow, Bklyn.
 Marks, L. E. *ph* 172 Forsythe
 Marks, R. † 3 *b*
 15 Kenilworth Pl., Orange
 Markwell, F. P. † 3 *ed* 27 W. 90
 Marley, R. J. † 3 *b*
 90 Mt. Pleasant ave., Newark
 Marquardt, W. C. 1 *s*
 336 St. Anne's ave.
 Marquess, E. † 1 *b* 504 W. 122
 Marren, M. L. † *ph* 310 W. 86
 Marsh, F. A. † 4 *ed* 523 W. 121
 Marshall, H. L. 4 *m* 422 W. 57
 Marshall, J. 1 *j* 47 E. 72
 Martens, C. † 1 *b* 245 W. 104
 Martin, A. P. 3 *l* Livingston
 Martin, F. L. 2 *l* Livingston
 Martin, G. A. *phar* 119 E. 89
 Martin, H. W. *gr ed* 420 W. 130
 Martin, K. I. † *ed*
 165 Kearney ave., Perth Amboy
 Martin, K. K. † *ed* Whittier
 Martin, L. W. † 3 *b* 178 E. 64
 Martin, M. A. *ph* 414 W. 121
 Martin, M. G. † 3 *ed*
 91 Clinton ave., Bklyn.
 Martin, R. D. † 4 *b* Brooks
 Martin, T. D. *ph* 600 W. 122
 Martin, V. † *pl* 206 E. 15
 Martinson, H. 3 *m* 395 E. 10
 Martus, J. H. *phar* 32 W. 114
 Marx, E. A. 1 *s* Hotel Endicott
 Marx, O. † 2 *b* 562 W. 113
 Mason, A. A. 3 *ed*
 2545 Valentine ave.
 Mason, B. G. † 3 *ed* Whittier
 Mason, H. H. 4 *s*
 1831 Marmion ave.
 Mason, M. H. † 4 *b*
 61 Monroe, Bklyn.
 Massee, E. M. † 3 *ed* 435 W. 119
 Masson, H. J. 4 *s* 2461 Elm Pl.
 Masterman, F. C. † *gr ed*
 106 Morningside Dr.
 Masters, M. W. † *ed* Whittier
 Mastick, S. C. *p* 2 Rector
 Mathes, F. P. † 4 *ed* 500 W. 122
 Matheson, G. W. 4 *c*
 609 Nostrand ave., Bklyn.
 Mathews, M. E. † 3 *ed*
 1 Convent ave.
 Mathews, R. H. 3 *m*
 570 Pavonia ave., Jersey City
 Mathison, E. † 4 *b* 547 Broome
 Matienzo, C. † *gr ed* Whittier

- Matteson, L. J. 3 l
 24 Urban, Mt. Vernon
 Matzner, P. A. † 4 ed 230 W. 137
 Maue, E. C. † 4 ed Whittier
 Maul, W. F. 3 s
 768 West End ave.
 Maurer, W. R. 1 s 158 W. 99
 Maurice, B. B. D. 1 c
 185 E. Post Rd., Mamaroneck
 Maurice, S. 2 l 565 W. 113
 Mausolff, A. K. fa
 5 Walworth ave., White Plains
 Mautner, B. H. 1 l
 1070 Madison ave.
 May, M. 3 c 550 W. 157
 May, M. A. ph 600 W. 122
 Maya, D. H. † 4 ed 419 W. 121
 Mayer, A. 1 c 41 E. 72
 Mayer, A. K. 1 c
 89 Chestnut, Bklyn.
 Mayer, C. † 3 b 41 E. 72
 Mayer, D. R. 4 c 232 Cypress ave.
 Mayer, E. S. gr ed 525 W. 120
 Mayer, E. T. † 4 b
 Corona Pk., Corona
 Mayer, J. W., Jr. 2 c
 440 West End ave.
 Mayer, M. D. 3 m 247 E. 71
 Mayer, M. L. † nm b
 37 Lincoln Rd., Bklyn.
 Mayer, T. † pl 41 E. 72
 Mayhew, Z. C. † 4 ed Whittier
 Maze, M., Jr. 4 s 322 W. 57
 Mazzoni, R. phar 327 E. 16
 Meacham, L. H. † 3 ed 414 W. 118
 Mead, A. R. gr ed 510 W. 124
 Mead, E. H. 1 l Furnald
 Mead, M. E. † 4 ed Whittier
 Meadows, A. G. † 3 ed Whittier
 Meadows, L. R. gr ed Livingston
 Mebane, B. H. 1 l
 Mebane, D. C. 1 c Hartley
 Mechanic, J. 3 s
 533 Knickerbocker ave., Bklyn.
 Medberg, H. D. † nm j 94 W. 162
 Medine, S. 2 s 137 Pitt
 Meeker, C. H. 4 ed 117 W. 130
 Meeker, D. E. 2 l
 101 Hancock, Bklyn.
 Meenan, D. L., Jr. 4 c 35 W. 88
 Meenan, W. T. nm j Hartley
 Megahan, A. M. † 1 pa
 700 President, Bklyn.
 Mehler, E. S. † pl 322 W. 100
 Meierhof, H. L. 3 c
 1140 Madison ave.
- Meinhold, † 1 pa 313 W. 139
 Meirowitz, S. 3 pa 1613 Second ave.
 Meisel, C. J. W. 2 l 458 W. 142
 Meissner, C. E. 4 s 627 W. 113
 Melberg, H. 2 s 60 Ludlow
 Meleny, F. L. 2 m 509 E. 16, Bklyn.
 Meleny, H. E. 3 m 509 E. 16, Bklyn.
 Mellett, J. C. ph Livingston
 Meltzer, E. M. phar 170 E. 108
 Melvin, H. M. † 4 ed
 381 S. B'way, Yonkers
 Memory, M. F. † 2 pa Whittier
 Mendes, M. P. † 4 ed 235 W. 76
 Mendes, P. 2 c 106 Central Pk. W.
 Mendiola, J. phar 261 W. 112
 Menken, H. D. 3 c
 791 West End ave.
 Mercado, L. † 3 ed Whittier
 Merckel, F. 2 s 107 E. 10
 Meredith, H. O. phar
 382 Wadsworth ave.
 Meriwether, R. L. pl Furnald
 Merrill, B. H. † ph 405 W. 118
 Merrill, G. A. pl
 253 Park, Hackensack
 Merrill, H. G. † p 519 W. 121
 Merrill, S. C. 1 s 2880 B'way
 Merriman, W. H. 4 ed Livingston
 Merritt, E. S. † gr ed
 698 Clifton ave., Newark
 Merritt, G. R. † 1 b 611 W. 180
 Merritt, T. phar
 11 South ave., Beacon
 Mescall, G. † ed Whittier
 Messemer, J. F. 3 m 3243 Hull ave.
 Messing, A. 2 m 22 Lewis
 Messing, A. J. 1 c 2039 B'way
 Messing, M. 1 s 22 Lewis
 Meston, H. † 3 ed Whittier
 Meston, I. E. † 4 ed 94 Lawrence
 Metcalf, M. L. † 4 ed Whittier
 Metz, B. C. † p 108 Convent ave.
 Metz, C. W. p 108 Convent ave.
 Meyer, A. E. † pl 733 Park ave.
 Meyer, A. T. † 3 pa 17 E. 87
 Meyer, C. F. † pl 95 Rivington
 Meyer, C. H. 3 l 139 W. 86
 Meyer, C. L. W. pl Furnald
 Meyer, D. L. 1 c 2 W. 89
 Meyer, E. † Sp b 139 W. 86
 Meyer, H. L. 3 c 50 W. 77
 Meyer, H. W. 2 c 700 Madison ave.

- Monfried, A. A. 1 s
14 Guion, Yonkers
- Monroe, E. C. † *pl* Whittier
- Monroe, H. C. 1 c 311 W. 95
- Monroe, J. † 1 *pa*
44 Prospect Dr., Yonkers
- Monroe, L. M. † 2 *b* 211 Fulton
- Monser, J. W. 2 c 825 W. 179
- Montanaro, F. B. *fa* 159 Prince
- Montgomery, A. † 4 *ed*
525 W. 120
- Montgomery, E. E. † 4 *ed*
12 E. Bradford, Yonkers
- Montgomery, E. T. † 2 *pa*
525 W. 120
- Montgomery, P. O'B. 3 s
531 W. 113
- Montgomery, R. B. 1 c
1013 Watchung ave., Plainfield
- Montgomery, S. L. † *ph*
430 W. 119
- Montgomery, V. † 1 *pa*
525 W. 120
- Montoro, J. E. *nm l* 237 W. 107
- Montray, M. † 3 *ed* 421 W. 118
- Mook, C. C. *p*
77 & Columbus ave.
- Mook, F. J. † 3 *ed* 501 W. 121
- Moolten, R. R. 1 c 1622 Ave. A
- Moon, E. A. † *p*
40 Morningside ave.
- Moon, P. L. *pl* 509 W. 121
- Moore, A. D. *pl* 600 W. 122
- Moore, A. E. † 3 *ed* 430 W. 118
- Moore, A. E. † *gr ed* 419 W. 119
- Moore, E. W. 2 s
155 Bowne ave., Flushing
- Moore, G. † 1 *b*
Echo ave., New Rochelle
- Moore, H. B. *nm l* 540 W. 113
- Moore, P. F. 4 *ed* 126 W. 127
- Moore, R. B. 4 *m* 437 W. 59
- Moore, R. R. 1 s
172 East End ave.
- Moore, S. A. † 2 *pa*
2 Pinehurst ave.
- Moore, W. L. 2 c Livingston
- Moore, W. V. 3 c
992 Sterling Pl., Bklyn.
- Moorhouse, E. B. 3 c 558 W. 113
- Morch, J. 2 s 304 Carroll, Bklyn.
- Morehouse, E. A. † 1 *b* Brooks
- Morgan, A. R. *pl* 175 Ninth ave.
- Morgan, E. P. † *Sp b* 135 E. 66
- Morgan, F. S. † *nm pa* Whittier
- Morgan, G. F. *gr ed* Hartley
- Morgan, L. L. † *ed* 206 W. 99
- Morgan, R. E. *phar* 118 W. 139
- Morgan, S. W. *fa*
- Morgenthau, L. R. † 3 *b*
161 W. 91
- Moriarty, J. H. 1 l
241-2, Jersey City
- Moritz, C. C. † 4 *j* 607 W. 116
- Moritz, M. I. † 1 *b* 446 E. 139
- Morrell, J. L. † 3 *ed*
W. Englewood
- Morrell, M. E. † 3 *ed*
177 Quincy, Bklyn.
- Morrill, B. C. 2 *m* 437 W. 59
- Morrill, F. U. † *ph*
296 Ryerson, Bklyn.
- Morrill, R. D. 3 l
Furnald
- Morris, A. 4 *ed* 1574 Madison ave.
- Morris, B. B. 2 l
Hartley
- Morris, B. O. † 3 *ed*
145 Clinton ave., Jersey City
- Morris, C. H. † 1 *b*
925 Park ave.
- Morris, F. K. *p*
485 Central Pk. W.
- Morris, G. E. † *ph* 396 E. 171
- Morris, L. R. 4 c 18 E. 60
- Morris, M. F. † *gr ed* 620 W. 116
- Morris, M. J. † 4 *ed*
1476 Ocean Parkway, Bklyn.
- Morris, M. J. † *p*
485 Central Pk. W.
- Morris, M. M. † 3 *ed* Whittier
- Morris, S. A. 1 *m* 131 W. 112
- Morris, W. 2 c
64 Humboldt, Bklyn.
- Morris, W. C. *phar* 311 W. 143
- Morrissey, N. C. † 1 *pa*
80 Bruce ave., Yonkers
- Morrissey, S. J. † 4 *ed* Whittier
- Morrison, F. H. 2 *m*
61 High, Newton
- Morrison, G. L. † *nm b* 23 E. 88
- Morrison, R. H. 3 l Livingston
- Morrison, W. R. 4 *m* 346 W. 57
- Morrissey, K. L. † 1 *pa*
420 W. 121
- Morrissey, L. † 2 *pa* 320 W. 96
- Morro, S. E. 3 *ed*
245 Albany ave., Bklyn.
- Morrow, A. T. 4 *ed*
602 Henry, Bklyn.
- Morse, G. E. † 4 *ed* 123 E. 89
- Morse, H. E. 4 s Livingston
- Moses, M. † 3 *b* 8 E. 127
- Moses, M. M. † 1 *b* Laureate Hall
- 119 & Amsterdam ave.
- Mosher, J. A. *ph* Furnald

Moskowitz, B. S. † *ed* 208 E. 10
 Moskowitz, C. *phar* 165 Attorney
 Moskowitz, D. H. *p*

1722-79, Bklyn.
 Moskowitz, M. 1 *s* 204 Henry
 Moskowitz, N. *phar* 317 E. 4
 Moss, E. † 3 *ed*

130 Claremont ave.
 Moss, L. B. † 4 *ed* 501 W. 121
 Mount, H. E. † 3 *b*

16 Morningside ave.
 Mountsier, M. † *pl* 417 W. 118
 Mountsier, R. *ph* 417 W. 118
 Mouquin, L. H. F. 2 *c*

273 West End ave.
 Mowry, T. G. *ph* 600 W. 122
 Moxcey, M. E. † *ph*

81 & Columbus ave.
 Muehleck, L. E. † 3 *ed*
 115 Oak, Weehawken Hts.

Muesch, E. G. 1 *m*
 273 Bainbridge, Bklyn.
 Mueser, A. *ph* 3260 Hull ave.

Mueser, E. 3 *s* 633 W. 115
 Muir, J. N. *gr ed*
 56 Cleveland, Orange

Mulhall, E. F. † 4 *b* 315 W. 97
 Mullarky, A. C. † 1 *pa*
 415 W. 118

Mullen, A. 1 *c* 405 W. 123
 Mullen, F. B. 4 *s*
 114 Franklin ave., New Rochelle

Mullen, J. A. 3 *l* 627 W. 113
 Muller, A. H. † *pl* 562 W. 150
 Muller, B. † *ed* 503 W. 121

Müller, C. A. 3 *s* Hawthorne
 Müller, M. K. † 3 *ed* 695 E. 170
 Muller, T. *p* 109 W. 136

Muller, W. J. 3 *ed*
 50 Bleecker, Bklyn.
 Mullin, D. T. † *nm b* Whittier

Mulqueen, J. F., Jr. 3 *l*
 888 Park ave.

Mulwitz, J. L. 2 *l*
 89 Haseco ave., Port Chester
 Mumper, N. M. 3 *s* 509 W. 121

Munger, A. D. 3 *m* 515 W. 184
 Munn, S. A. *phar*
 90 Oliver ave., Yonkers

Munro, M. I. † 3 *ed*
 854 Avenue C, Bayonne
 Munro, S. H. † 3 *ed* 414 W. 120

Munro, W. W. 2 *c* 523 W. 121
 Munroe, R. K. 1 *s* 501 W. 120
 Munter, E. † 1 *b* 52 W. 91

Murata, T. *ph* 600 W. 122
 Muravchik, C. *pl* 60 W. 109

Muravchik, R. B. † *pl* 60 W. 109
 Murawsky, A. K. *nm fa*
 1379 Woodhaven ave.,

Woodhaven
 Murchison, C. T. *pl* Furnald
 Murnane, R. † 2 *b*

274 Degraw, Bklyn.
 Murphey, H. K. 1 *l* Livingston
 Murphy, A. B. † 3 *ed* Whittier

Murphy, C. D. † *p* 515 W. 122
 Murphy, E. H. † *ph*
 1551-55, Bklyn.

Murphy, G. B. 4 *c* 104 W. 102
 Murphy, G. B. † 3 *ed*
 534 Putnam, Bklyn.

Murphy, H. A. † 3 *b*
 25 Hamilton Ter.

Murphy, J. A. 3 *c* Hartley
 Murphy, J. J. 2 *l*
 19 Goodman Pl., Hartford

Murphy, M. † 4 *ed*
 160 Willoughby ave., Bklyn.
 Murphy, P. C. 1 *pa* 17 W. 65

Murphy, S. W. 1 *l*
 107 Rodney, Bklyn.
 Murphy, W. A. 4 *ed*

111 Ft. Green Pl., Bklyn.
 Murray, A. † *ed* 519 W. 121
 Murray, C. 1 *c* 412 W. 115

Murray, E. T. *phar* 115 W. 68
 Murray, E. W. 3 *s* Hartley
 Murtland, C. 4 *ed* 527 W. 121

Musgrave, E. † *ph* 122 E. 66
 Mushekin, E. 1 *s* 444 W. 164
 Musseans, M. G. † *ph* 111 W. 82

Musser, B. W. *nm l* 350 W. 120
 Mutchnick, J. *phar* 210 E. 21
 Mutchuror, J. R. *pl* 600 W. 122

Mutscheller, A. *p* 112 E. 77
 Myers, A. S. *ph* 309 W. 70
 Myers, B. I. † *ed* Whittier

Myers, D. K. † 2 *b* 153 W. 78
 Myers, E. † *ph* 411 W. 115
 Myers, M. † 1 *b* 216 W. 102

Myers, O. B. 2 *s*
 109 S. Third ave., Mt. Vernon
 Myers, W. V. 1 *c* 522 W. 123

Myerson, D. † *phar* 818 E. 166
 Mylius, L. A. 3 *s* Livingston
 Myrick, C. † *ph* 605 W. 141

Naboshek, D. 2 *s* 3 E. 106
 Nacht, V. 4 *s* 148 W. 142
 Nagel, H. K. 4 *j* 347 W. 55

Nagelberg, J. L. 2 *s*
 2082 Hughes ave.
 Nahm, H. H. 1 *c* 628 W. 114

- Nahon, Z. † *ph* 25 Broad
 Nakamura, Y. *ph* 80 Manhattan ave.
 Nammack, A. † 1 *b* 110 Morningside ave., W.
 Nammack, E. F. † *ph* 110 Morningside Dr.
 Nankin, I. *ph* 91 Meserole, Bklyn.
 Naravane, S. G. 4 *s* 331 E. 51
 Nardone, N. *phar* 308 E. 114
 Nathan, E. J., Jr. 127 W. 74
 Nathan, R. G. † 2 *b* 127 W. 74
 Nathanson, D. M. 4 *m* 35 W. 115
 Nathanson, M. E. † 2 *b* 526 New Jersey ave., Bklyn.
 Nathanson, S. 2 *l* 616 W. 114
 Naumburg, A. † *ph* 21 W. 83
 Naumer, H. A. 2 *c* 619 W. 113
 Needles, G. A. *phar* 331 E. 31
 Neer, A. E. † 3 *ed* 189 State, Perth Amboy
 Neer, I. † 1 *b* 245 B'way, Paterson
 Neergaard, W. *phar* 293 Sixth ave., Bklyn.
 Neff, E. E. *ph* 217 W. 104
 Neff, L. G. 2 *s* 431 W. 117
 Neimeth, J. *phar* 5315 Twelfth ave., Bklyn.
 Neinken, M. L. 2 *s* 378 Keap, Bklyn.
 Nekarda, V. F. 4 *c* 504 E. 86
 Nellis, Mrs. E. G. † 2 *pa* 144 E. 22
 Nelson, E. *p* Furnald
 Nelsen, G. † 4 *ed* Whittier
 Nelson, H. L. † 2 *pa* 1617 Beverly Rd., Bklyn.
 Nelson, M. L. † 1 *pa* Whittier
 Nelson, N. E. 4 *s* Edgewater
 Nelson, S. A. C. † 3 *b* 226 E. 40
 Nemser, N. 2 *m* 88 First ave.
 Nesbitt, E. H. † *ed* 501 W. 121
 Ness, W. † *ed* 521 W. 111
 Netter, W. 2 *l* 827 Seventh ave.
 Netterer, S. J. *gr ed* 3135 B'way
 Neuman, L. † *ph* 11 E. 118
 Neumann, E. 2 *c* 210 Stockton, Bklyn.
 Neumann, H. *ph* 304 Marlborough Rd., Bklyn.
 Neumann, J. H. *gr ed* 210 Stockton, Bklyn.
 Neumer, O. 1 *s* 20 W. 95
 Neun, D. E. † *p* Brooks
 Neville, E. S. † *ph* 193 St. Nicholas ave.
 Nevin, W. M. 3 *c* 142-68, Bklyn.
 Nevitt, H. G. 2 *s* 624 W. 139
 Newburger, M. J. 1 *c* 401 West End ave.
 Newell, F. B. *pl* 600 W. 122
 Newell, R. † *gr ed* 420 W. 121
 Newfield, L. A. 3 *m* 33 Thatford ave., Bklyn.
 Newfield, S. H. *phar* 33 Thatford ave., Bklyn.
 Newhall, A. H. *pl* 15 E. 38
 Newman, D. 4 *c* 147 Van Buren, Bklyn.
 Newman, F. W. 3 *c* 506a-5, Bklyn.
 Newman, J. W. 3 *c* 506a-5, Bklyn.
 Nicholaus, J. L. 1 *m* 437 W. 59
 Nichols, C. A. *gr ed* 523 W. 122
 Nichols, C. F. 3 *m* 437 W. 59
 Nichols, D. † 1 *b* 80 Grand ave., Jamaica
 Nicola, L. † 4 *b* Cedar Grove
 Nicolson, W. P., Jr. 2 *m* Livingston
 Nielsen, L. H. 4 *c* 890 Eagle ave.
 Niemetz, H. D. *phar* 138 W. 137
 Nighman, C. E. 3 *s* 370 W. 120
 Niles, F. L. 4 *m* 351 W. 56
 Noble, G. H., Jr. 1 *m* Furnald
 Noble, J. K. 1 *s* 441 N. B'way, Yonkers
 Noble, K. † *ph* 304 W. 77
 Nodelman, N. *phar* 234 E. 96
 Nodine, E. R. 1 *c* 27 Siwanoy ave., New Rochelle
 Noice, D. † 1 *b* 462 Convent ave.
 Nolan, J. F. *phar* Westport
 Nolan, J. L. L. *nm c* 103 Prospect Pl., Bklyn.
 Nolte, A. C. 4 *s* 158 W. 84
 Nomland, K. *fa* 604 W. 114
 Noonan, R. L. 1 *c* 102 Oakland, Bklyn.
 Nordlinger, H. H. 3 *l* 45 E. 80
 Norek, A. 3 *c* 1544 Union, Bklyn.
 Norman, J. W. *gr ed* 546 W. 124
 Norris, N. † 2 *b* Brooks
 Northrup, B. † *nm pa* 416 W. 122
 Northrup, E. † 3 *ed* 519 W. 121
 Northwood, L. † 3 *ed* Whittier
 Norton, A. E. † 3 *pa* Whittier
 Norton, A. M. † 3 *ed* 421 W. 118
 Norton, A. W. 1 *s* 614 W. 113
 Norton, C. B. † 3 *ed* 716 W. 180
 Norton, E. K. † *nm b* Brooks
 Norton, K. B. *f a* 30 E. 55
 Norton, T. J. 1 *c* 562 W. 171

Norwood, G. H. † 3 *pa* 434 W. 120
 Noschkes, A. *ph* 420 Grand
 Nositzer, G. 4 *s* 217 W. 111
 Nowlan, F. S. *p* Livingston
 Noyes, E. J. *nm c* 515 W. 160
 Noyes, M. H. † 4 *ed*
 106 Morningside Dr.
 Nudd, H. W. *pl* Furnald
 Nuese, F. C. † 4 *ed* 417 W. 120
 Nuffort, W. 3 *c* 900 S. 16, Newark
 Nugent, G. † 4 *ed* Whittier
 Nugent, M. L. † 1 *pa* Whittier
 Nusim, S. I. 2 *s* 97 Second ave.
 Nussbaum, B. 4 *c* Pleasantville
 Nyi, J. Z. T. *pl* Hartley
 Nyland, F. C. 4 *c* 627 W. 113
 Oakley, E. W. † 1 *b* 14 E. 60
 Oates, A. R. *pl* 600 W. 122
 Oberman, F. D. † *ph* 527 W. 124
 Oberrender, G. F. 1 *c* 565 W. 113
 O'Brien, C. E. † *gr ed*
 1324 Lexington ave.
 O'Brien, D. C. 3 *l* Hartley
 O'Brien, V. 1 *c* 140 West, Bklyn.
 O'Brien, W. L. 1 *c*
 136 Union ave., Peekskill
 Ochs, I. B. † 3 *b* 308 W. 75
 O'Connell, M. † *p* 616 W. 182
 O'Connor, A. J. 2 *m*
 143 Himrod, Bklyn.
 O'Connor, G. W. *nm s* 268 W. 93
 O'Connor, M. A. † *phar*
 19 Church, White Plains
 Odell, D. W. *phar* Tarrytown
 O'Donohoe, G. G. 2 *l* 416 W. 122
 O'Dowd, J. J. 1 *m* 418 W. 150
 Oelrich, P. † *pl*
 120 Lenox ave., E. Orange
 Oelrichs, H. *nm l* 1 E. 57
 Oerzen, E. N. † 3 *b*
 1022 Woody Crest ave.
 Ofrias, R. F. † *phar* 218 E. 14
 Ogden, F. L. † 2 *pa*
 241 Summit ave., Hackensack
 Ogilvie, P. M. *pl*
 548 Riverside Dr.
 O'Hagan, C. *phar*
 8 Abenroth Pl., Port Chester
 O'Hara, G. W. *nm j* Hartley
 Ohlssen, W. C. 4 *s* 407 E. 134
 O'Kane, R. G. 4 *s* 414 W. 121
 Oldfield, I. E. † 1 *pa* 605 W. 156
 Oldright, G. L. 4 *s* 541 W. 123
 Olds, L. *pl* 600 W. 122
 O'Leary, P. S. *pl* 88 Convent ave.
 Olerkebauer, J. *ed* 215 W. 23

Olin, J. E. *pl* Park Ridge
 Olinger, H. C. *ph*
 695 Lexington ave.
 Oliver, M. A. † 3 *ed* 541 W. 123
 Olmsted, C. E. 3 *s* 521 W. 112
 Olt, H. 4 *s* 414 E. 134
 O'Malley, C. A. 2 *c*
 127 Elm, Yonkers
 O'Neale, J. S., Jr. 2 *c* 600 W. 114
 O'Neil, A. 1 *l* Hartley
 O'Neil, C. † 1 *pa* Whittier
 O'Neil, F. J. 1 *m* 124 W. 94
 O'Neill, J. A. 4 *c* 408 W. 115
 Oppenheim, L. S. † 3 *pa*
 501 W. 138
 Oppenheimer, F. † 1 *b* 11 W. 87
 Oppenheimer, F. S. 1 *j*
 285 Central Pk. W.
 Oppenheimer, L. M. † 3 *b*
 777 West End ave.
 Oram, R. M. 2 *c* 247 W. 68
 Ord, A. A. † 4 *b* 851 W. 181
 Ordway, S. † 4 *b* 417 W. 120
 Orefice, V. M. *phar* 526 Second ave.
 O'Reilly, V. J. 3 *c*
 112 Bay View ave., Jersey City
 O'Reilly, W. T. 3 *s*
 Mt. Morris Park W.
 Oriel, M. L. † 4 *ed* 525 W. 120
 Origgi, S. † 1 *b* 244 Spring
 Orliansky, I. L. 1 *c* 7 W. 111
 Orliansky, J. B. *gr ed* 7 W. 111
 Ormsbee, R. H. 3 *s* Hartley
 Orr, F. B. 1 *m* 346 W. 57
 Orr, S. J. 1 *s* 604 W. 115
 Orr, W. S. 2 *l* 419 W. 119
 Orthey, G. F. 3 *s*
 486 Marion, Bklyn.
 Ortman, V. † 1 *pa*
 1586 Washington ave.
 Osborn, E. † 4 *ed* Whittier
 Osborn, J. W. *gr ed* 523 W. 121
 Osborn, L. † 3 *ed* 10 E. 81
 Osborn, L. S. † *ph* 523 W. 121
 Osborn, T. G. *phar* Riverhead
 Osborne, M. H. † 3 *ed* 245 W. 104
 Osburn, M. M. † 3 *ed* Whittier
 Osgood, H. S. 3 *c* 526 W. 150
 Osgood, M. † *pl* 135 E. 52
 Osgood, M. S. † *pl* 526 W. 150
 Osmond, E. G. † 4 *ed* Whittier
 Osserman, H. A. 2 *m*
 19 Sterling Pl., Edgewater
 Osswalt, R. L. 2 *c*
 420 Kosciusko, Bklyn.
 Osterholm, C. A. 3 *pa*
 350 Bergen, Bklyn.

- Osterholm, L. † 3 *ed* 420 W. 121
 Osterhus, G. K. 3 *c* Hartley
 Osterman, C. K. 3 *c*
 519 Central ave., Jersey City
 Ostrom, F. B. † 4 *ed* Whittier
 Ostrow, A. 2 *c*
 51 Lincoln, Newark
 Ostrow, G. D. *phar*
 2187 Seventh ave.
 O'Sullivan, R. † 3 *b* 220 W. 71
 O'Sullivan, T. F. † *pl* 51 Chambers
 Otsuka, S. *ph* 60 W. 122
 Otto, C. F. *pl*
 496 Sixth ave., Bklyn.
 Otten, G. H. *nm fa* 244 W. 109
 Ou, L. *pl* 225 E. 31
 Overman, J. R. *gr ed* 527 W. 124
 Overstreet, Mrs. E. B. † 4 *ed*
 2426 University ave.
 Owen, C. *pl* 217 W. 134
 Owen, G. A. † 4 *j* Whittier
 Owens, E. A. † 4 *b*
 773 Jefferson ave., Bklyn.
 Owens, J. L. † *pl* 465 W. 157
- Packard, F. L. *gr ed* Montclair
 Packebusch, L. † *ed* 519 W. 121
 Paddock, A. K. 1 *c* 149 W. 72
 Paddock, A. M. † 3 *b* 149 W. 72
 Paddock, E. H. 3 *s* 149 W. 72
 Paddock, L. 4 *s* 141 W. 70
 Paddock, R. 4 *m* 141 W. 70
 Padwe, F. 1 *c* 297-4, Jersey City
 Page, A. S. 3 *j* 105 E. 19
 Page, E. M. † *pl* 2202 Loring Pl.
 Page, G. R. 4 *s* Livingston
 Page, I. B. † *ph* 616 W. 116
 Page, N. C. † 1 *pa* Whittier
 Page, P. † 1 *pa* 105 E. 19
 Paine, L. K. † 2 *pa* Whittier
 Palen, H. W. 1 *s* 464 Riverside Dr.
 Pallen, C. de S. 4 *m*
 197 Wyman ave., New Rochelle
 Palley, D. M. 3 *l*
 1412 Pitkin ave., Bklyn.
 Palmer, C. A. † 3 *pa* 110 W. 91
 Palmer, E. † 3 *b*
 828 St. Nicholas ave.
 Palmer, E. 3 *l*
 70 Lefferts Pl., Bklyn.
 Palmer, E. A. † *pl* 414 W. 120
 Palmer, F. † 4 *b* 442 E. 136
 Palmer, F. L. † 3 *ed* 525 W. 120
 Palmer, G. † 1 *b* Brooks
 Palmer, H. L. *phar* 115 W. 68
 Palmer, H. M. 2 *s* 312 W. 102
 Palmer, L. A. † *ed* 235 E. 18
- Palmer, M. † 1 *pa* Whittier
 Pang, C. M. 4 *c*
 499 Washington ave., Bklyn.
 Pangburn, C. H. *ph* 30 W. 44
 Panuska, F. C. 3 *ed* 428 E. 77
 PaoKan, L. *p* Livingston
 Papazian, E. † 1 *b* 27 W. 37
 Pardee, I. H. 3 *m* 74 W. 48
 Pareis, E. M. † 2 *b* 77 Morton
 Parham, E. R. *nm l* Livingston
 Park, E. A. *fa* Hartley
 Park, J. 1 *s* 558 W. 113
 Park, J. H. *pl* Wyoming
 Park, O. † 4 *ed* Whittier
 Park, S. J. 1 *c* Hartley
 Parker, E. W. † 1 *b*
 46 Halsey, Bklyn.
 Parks, G. B. *ph* Livingston
 Parmelee, F. † *pl* 135 E. 52
 Paroni, C. A. † *gr ed* Whittier
 Parotzky, J. *phar*
 1450 Madison ave.
 Parsons, A. T. † *ph* 863 Park ave.
 Parsons, J. P. 4 *c* 449 Park ave.
 Parsons, M. G. † 4 *ed* 408 W. 115
 Parsons, N. M. † *nm pa*
 417 W. 120
 Parsons, S. L., Jr. 1 *l*
 524 Fifth ave.
 Parsons, W. B., Jr. 4 *m* 35 E. 50
 Pascarella, A. J. 2 *s* Furnald
 Passanante, O. *phar* 306 E. 115
 Passarelli, L. A. 1 *c* 301 E. 115
 Passover, G. C. 4 *m* 203 W. 109
 Pastel, E. † *ph* 9 Pinehurst ave.
 Paszek, L. F. 3 *c*
 298 Seventh ave., Bklyn.
 Paterson, S. *fa* 431 W. 117
 Patrick, M. M. † 4 *ed* 430 W. 119
 Patrick, S. L. † *gr ed* 505 W. 121
 Patterson, G. S. 4 *s* 616 W. 113
 Patterson, J. S. *nm l* Livingston
 Patteson, K. † 3 *ed* Tarrytown
 Patterson, M. H. † 4 *b*
 210 Riverside Dr.
 Patterson, W. A. 3 *c*
 Wards Island
- Paufve, R. E. *fa*
 29 Schermerhorn, Bklyn.
 Pauley, C. T. 1 *c* Hartley
 Paulonis, J. F. *phar*
 229 N. 7th, Bklyn.
 Paulsen, E. P. 3 *ed* 524 W. 123
 Payne, N. B. † 4 *ed*
 106 Morningside Dr.
 Paynter, R. H. *ph*
 1205 Fulton, Bklyn.

Peach, A. H. † 3 *ed*
 271 Parker, Newark
 Pearce, C. C. 2 *l* Furnald
 Pearce, G. † *gr ed* Casenovia
 Pearl, P. L. 3 *c* 206 Hart, Bklyn.
 Pearle, C. 3 *l* 600 Quincy, Bklyn.
 Pearlman, J. 481-16, Bklyn.
 Pearse, W. H. 1 *l*
 41 Lefferts ave., Richmond Hill
 Pearson, G. I. † 2 *b*
 1525-50 Bklyn.
 Peart, E. N. *ph* 869 E. 224
 Peck, E. † 3 *ed* Whittier
 Peck, E. S. † *ph*
 515 Clinton ave., Bklyn.
 Peck, J. S. 3 *s* 412 W. 115
 Peck, M. † 4 *b* 48 E. 89
 Peckham, H. H. *ph* 521 W. 123
 Peddie, R. M. *phar* 75 W. 68
 Peene, E. L. † 2 *pa*
 54 Lamartine, Yonkers
 Peene, G. M. † 1 *pa*
 18 Wicker, Yonkers
 Peeples, T. K. *nm l* 544 W. 157
 Peet, G. B. † *ed* Whittier
 Peet, R. † 2 *pa* 144 W. 93
 Peiker, H. C. 2 *l* Livingston
 Pell, Van D. 3 *s* 234 W. 122
 Pellegrini, P. U. *fa*
 90 Morningside Dr.
 Peltz, G. M. 3 *s*
 123-4, Elmhurst
 Pendery, A. E. † 3 *ed* Whittier
 Pendleton, W. † 4 *ed* Whittier
 Penfield, R. G. 3 *s*
 198 & Ft. Washington ave.
 Pengel, E. † 1 *b*
 6908 Ft. Hamilton ave., Bklyn.
 Penniston, J. B. *pl* 554 W. 114
 Pennock, M. R. † 1 *b* Dunellen
 Pennoyer, M. E. † 3 *ed* Whittier
 Penrose, A. W. † 3 *ed* 560 W. 180
 Pentacost, E. A. † 3 *pa* 540 W. 122
 Peper, F. J. 1 *c*
 593 Washington ave., Bklyn.
 Perea, J. A. 1 *c*
 Perea, S. 1 *c*
 Perkins, J. R. 3 *c* Furnald
 Perkins, R. L. 1 *c*
 28 Chestnut Lane, New Rochelle
 Perky, S. H. *pl* Furnald
 Perla, L. 1 *c* 332 Chauncey, Bklyn.
 Perlman, P. † 1 *b*
 949 St. Johns ave.
 Pero, S. E. † *p* 30 Convent ave.
 Perry, C. L. † 3 *ed* 417 W. 120
 Perry, E. O. *pl* 26 Jones

Perry, H. C. † 1 *pa* 340 W. 85
 Perry, L. C. † *ph* 417 W. 120
 Perry, R. R. 2 *c* Livingston
 Petchtle, C. B. 1 *c*
 135 Hamilton Pl.
 Peters, A., Jr. 4 *m*
 291 Hancock, Bklyn.
 Peters, A. G. 4 *ed*
 953 Grove, Elizabeth
 Peters, F. F. 2 *s* 227 W. 99
 Peters, I. L. † *pl*
 610 Riverside Dr.
 Peters, J. St. M. † 1 *b* 227 W. 99
 Peters, M. † 1 *pa* Whittier
 Peters, M. K. † *gr ed* Whittier
 Peters, R. † 3 *ed* 152 W. 55
 Petersen, A. E. 4 *s* 565 W. 113
 Peterson, C. W. 4 *c* 1 Convent ave.
 Peterson, L. H. *pl* 595 W. 122
 Peterson, R. E. H. † 1 *b*
 1054 Boston Rd.
 Petrella, G. *phar*
 181 Sands, Bklyn.
 Petri, E. *ph* 540 W. 122
 Petri, L. † 4 *b* 739 Quincy, Bklyn.
 Petteway, H. C. 1 *l* Hartley
 Petteway, W. R. 1 *l* Hartley
 Petzel, C. L. 1 *s* 15 W. 126
 Pfeffer, A. M. † 2 *b* 265 7th ave.,
 Long Island City
 Pfeiffer, W. P. 2 *c* 3495 B'way
 Phelps, A. E. † 3 *ed* 405 W. 118
 Phelps, E. C. † 4 *ed* 519 W. 121
 Phelps, K. E. † 1 *pa* Whittier
 Phiifer, L. B. *pl* 418 W. 118
 Philhower, C. A. *gr ed* Chatham
 Philipps, G. H. † 3 *ed* 414 W. 120
 Phillips, H. B. 4 *m* 73 E. 108
 Phillips, R. H. 3 *l* 404 W. 116
 Phillips, C. D. † *ed*
 3 Milne, Cranford
 Phillips, E. A. G. † *ed* 107 W. 82
 Phillips, H. *pl* 530 W. 122
 Phillips, H. J. † *gr ed* 530 W. 122
 Phillips, M. † 1 *pa* Whittier
 Phillips, R. B. 2 *c* 565 W. 113
 Philp, M. I. † *ph*
 126 Macon, Bklyn.
 Philson, B. 3 *l* Livingston
 Phipps, F. H. 4 *c*
 102 S. Sixth ave., Mt. Vernon
 Piantieri, R. E. *phar* 223 Grand
 Pica, A. *phar* 350 E. 116
 Piccione, G. J. 1 *s* 55 Barrow
 Piccirilli, P. J. 3 *s* 704 Eagle ave.
 Pick, T. † *ph* 41 E. 72

- Pickatt, W. J. *ph*
200 Wadsworth ave.
- Pickering, H. B. *gr ed* Livingston
- Pickett, E. *† 3 ed*
180 Claremont ave.
- Picozzie, S. *phar*
461 Atlantic ave., Bklyn.
- Piel, R. A. *1 c* 245 W. 72
- Pierce, E. D. *† pl* Engelwood
- Pierce, E. M. *† 3 ed* 546 W. 134
- Pierce, L. W. *† 1 pa*
Croton-on-Hudson
- Pierpont, J. H. *† 3 ed*
29 Church, White Plains
- Pierson, W. W., Jr. *pl*
1161 Amsterdam ave.
- Pike, F. S. *† ed* 575 W. 159
- Pillsbury, M. E. *† 3 ed* 214 W. 114
- Pilnacek, E. A. *2 s* 370 W. 120
- Pincus, S. *3 s* 1800 Seventh ave.
- Pine, L. *nm m* City Hospital
- Pine, M. B. *† 2 b* 2323 Loring Pl.
- Pineda, R., Jr. *4 s* 608 W. 113
- Pines, W. *1 s* 901 E. 172
- Pinkham, A. D. *1 m* 50 W. 69
- Pinkham, F. A. *† gr ed*
209 Walnut, Peekskill
- Pinnes, S. *phar* E. Setauket
- Piperoux, R. P. *4 s* Livingston
- Pitts, A. L. *3 l* 435 W. 117
- Pitts, F. G. *1 j* Furnald
- Placé, L. V., Jr. *1 s* 237 W. 107
- Plamondon, C. A., Jr. *1 l* Furnald
- Platt, C. E. *† 3 ed* 85 W. 103
- Platt, R. F. *† ph*
851 West End ave.
- Platten, G. I. *† ph*
587 West End ave.
- Plaut, E. *ph* 28 E. 76
- Pleus, H. *nm c* 159 Sixth ave.
- Plumb, A. B. *† 4 ed* Whittier
- Pockman, T. N. *4 j* 429 W. 117
- Podoloff, D. *fa* Furnald
- Podolsky, R. *phar* 230 E. 4
- Pohlmann, H. F. *1 c* Hartley
- Pollack, S. *† 1 b* 206 E. 102
- Polley, A. A. *† 3 ed* 415 W. 118
- Pollitzer, A. *† 1 b* 51 E. 60
- Pollitzer, E. L. *† 3 pa* 31 W. 87
- Pollitzer, M. *† 3 b* 51 E. 60
- Pomeroy, F. H. *4 m* 600 W. 115
- Ponemone, I. W. *1 s*
453 Graham ave., Bklyn.
- Ponsford, H. J. *fa* Furnald
- Poore, H. W. *† 4 b*
1107 Carroll, Bklyn.
- Pope, H. M. *† ph*
344 Aycrigg ave., Passaic
- Popkins, L. M. *† ph* 417 W. 118
- Popper, O. *† 2 b* 77 E. 89
- Porges, R. *† 1 pa*
198 Fingerboard Rd.,
Ft. Wadsworth
- Porter, A. M. *pl* 600 W. 122
- Porter, E. S. *1 c* 429 W. 117
- Porter, F. J. *3 l* 15 E. 10
- Porter, L. D. *† 1 b*
40 Morningside ave.
- Porter, R. B. *nm c* Furnald
- Portnow, D. E. *phar* 18 E. 105
- Portoghese, G. *phar*
2087 Second ave.
- Posin, S. E. *phar*
32 Morrell, Bklyn.
- Posner, H. *1 c*
277 Gates ave., Bklyn.
- Posner, H. *2 s*
344 Rodney, Bklyn.
- Post, S. M. *† 3 ed*
136 Lafayette ave., Passaic
- Post, H. A. *ph*
1025 Washington ave., Hoboken
- Pott, R. M. *1 c* 304 W. 99
- Potter, G. *† 1 b*
Armour Villa, Bronxville
- Potter, M. *1 l* 841 Beck
- Potter, R. T. *1 m* 346 W. 57
- Pound, Mrs. B. G. Whittier
- Powell, A. W. *† pl*
915 President, Bklyn.
- Powell, E. M. *4 j* 627 W. 115
- Powell, J. A. *† gr ed* 500 W. 122
- Powell, L. R. *† ph* Brooks
- Powell, M. C. *† 2 pa* 424 W. 119
- Powell, M. L. *† 2 b*
349 West End ave.
- Powell, M. W. *† 2 pa*
915 President, Bklyn.
- Powell, R. R. *3 l* 633 W. 115
- Prashker, L. *gr ed* 920 Prospect ave.
- Pratt, M. *† ph* N. Brighton
- Pratt, M. A. *† 4 ed*
26 Williams, E. Orange
- Pray, G. *† nm pa*
153 Aycrigg ave., Passaic
- Pressner, S. *2 s* 664 E. 160
- Preston, M. F. *† 3 ed* 414 W. 121
- Pretzell, P. *phar*
175 Claremont ave.
- Preuss, P. G. *1 s*
223 N. High, Mt. Vernon
- Price, E. B. *pl* Livingston
- Price, J. *3 m* 786 E. 183

Price, J. J. *ph* 62 W. 118
 Price, M. † 3 *ed* Whittier
 Price, W. D. *pl* Furnald
 Pringle, J. G. 1 *s*
 354 College ave.
 Prior, C. E., Jr. 4 *s*
 191 Claremont ave.
 Pritchard, E. † 1 *b* 419 W. 119
 Pritchard, A. M. † 1 *b* 405 W. 118
 Proal, R. H. † 4 *ed* Whittier
 Prochazka, O. † *nm pa* 138 W. 113
 Proffit, C. G. 1 *c* Livingston
 Prömmel, H. W. C. 1 *s* 160 W. 123
 Proper, K. 2 *l* 643 Prospect ave.
 Propper, R. † *phar*
 643 Prospect ave.
 Prote, J. C., Jr. *phar*
 195 Main, Astoria
 Prout, F. R. *ph* 175 Ninth ave.
 Puddicombe, D. E. † 1 *pa* Whittier
 Puddington, A. M. † 3 *ed*
 Madison
 Pudney, W. K. 1 *m*
 49 Union, Montclair
 Pulley, J. W. 4 *s* 171 W. 94
 Pulley, V. † 3 *b* 171 W. 94
 Puorro, M. *p*
 95 Kingston ave., Bklyn.
 Purdy, J. H., Jr. 4 *c* 14 W. 122
 Pyle, E. 3 *m* 421 W. 57
 Pyle, H. J. 1 *m* 359 W. 55
 Pyne, W. C. 3 *l* 604 W. 114
 Quackenbos, G. P. *ph* 331 W. 28
 Quackenbos, K. † 1 *b* 331 W. 28
 Quander, N. M. † *pl* 208 W. 134
 Quattlbaum, S. 4 *s* 318 W. 126
 Quigg, M. T. 1 *l*
 435 West End ave.
 Quinlan, J. T. 2 *c* 221 E. 39
 Quinn, E. J. *gr ed* 501 W. 182
 Quinn, H. 4 *s* Great Neck Sta.
 Raabin, H. D. 3 *s*
 129 Utica ave., Bklyn.
 Rabb, C. C. † 1 *b*
 Fairview Pk., Tuckahoe
 Rabinowitz, C. † 3 *ed*
 154 Lenox ave.
 Rabinowitz, H. R. 1 *c* 60 Canal
 Rabinowitz, I. *phar* 167 Eldridge
 Rabinowitz, L. *phar* 12 W. 112
 Raby, M. M. † 3 *ed* Whittier
 Race, H. V. † *gr ed* Whittier
 Racubian, R. S. † *ed* 525 W. 120

Rade, H. S. 4 *s*
 70 Morningside ave.
 Radeloff, J. A. 3 *c*
 150 Manhattan ave., Bklyn.
 Radley, H. C. 3 *ed* Port Jervis
 Rado, H. R. 2 *c* 142 S. 9th ave.,
 Mt. Vernon
 Raff, G. † 4 *b* 1419-58, Bklyn.
 Ragan, L. F. † 3 *ed* Whittier
 Ragan, M. G. † 3 *ed* 416 W. 122
 Ragland, F. J. † *gr ed* Whittier
 Raines, M. A. 2 *c* 763 E. 161
 Raisch, W. L. *fa* 420 W. 118
 Ralph, M. † *gr ed* 200 W. 98
 Ralston, M. H. † 3 *ed* 525 W. 120
 Rampulla, J. J. *phar*
 1422 Bergen, Bklyn.
 Ramsay, A. D. 2 *m* 178 W. 181
 Ramsay, E. W. † *ph* 501 W. 121
 Ramsay, G. H. 1 *m* 461 W. 57
 Ramsdell, M. E. † *ed*
 18 Boyd ave., Jersey City
 Rand, E. H. 2 *m* 421 W. 57
 Randolph, A. F. 2 *s* Livingston
 Randolph, I. F. † 3 *b* 425 W. 114
 Randolph, M. F. † 3 *b*
 76 S. 10, Newark
 Randolph, W. G. 2 *c* 630 W. 147
 Rankin, B. F. 1 *m* 346 W. 57
 Rankin, E. L. † 3 *b* 20 W. 129
 Rankin, J. R. † 4 *j* 532 W. 145
 Rankin, M. E. † *gr ed* Whittier
 Ranschoff, N. S. 1 *c* 308 W. 93
 Ransom, T. D., Jr. 4 *j* Furnald
 Ransom, W. H. *p* 131 W. 116
 Raphael, J. 1 *l* 204 W. 143
 Rapp, S. K. 3 *l* 346 W. 71
 Rappaport, J. L. 4 *c* 522 W. 157
 Rasori, F. 2 *s*
 29 Stevens, Long Island City
 Raszewski, G. A. † *ph*
 521 W. 134
 Rathgen, C. † *Sp b* 419 W. 117
 Rau, H. † 1 *b* 319 W. 108
 Raven, M. † 4 *ed* Whittier
 Ravitch, M. *ph* 430 W. 118
 Ray, F. *p* 140 Cedar
 Rayens, C. E. 3 *s* 604 W. 114
 Rayle, A. A., Jr. 2 *m* Livingston
 Reynolds, R. 4 *m* 350 W. 58
 Read, F. W. † *pl*
 70 Morningside Dr.
 Read, J. L. 2 *l* Livingston
 Reagan, C. A. 1 *c* 1629 Park ave.
 Reams, E. A. *pl* Livingston
 Reaser, D. Y. † 2 *b*
 15 Arden Pl., Yonkers

- Recio, F. A. † 2 *pa*
468 Riverside Dr.
- Reed, G. † 4 *ed*
394 Putnam ave., Bklyn.
- Reed, H. B. *ph*
1161 Amsterdam ave.
- Reed, L. A. *pl*
136 Saratoga ave., Bklyn.
- Reed, L. P. 2 *l* 540 W. 122
- Reed, M. G. † 4 *pa* Whittier
- Reed, R. W. † 2 *pa* Whittier
- Reed, W. J. *fa* 565 W. 113
- Reeder, G. † *pl* Hastings
- Reeder, N. M. † *pl*
169 Columbia Hts.
- Reeder, R. R., Jr. 2 *c* 565 W. 113
- Rees, F. M. † 2 *b*
39 Claremont ave.
- Reese, C. H. † *pl* 478 W. 145
- Reese, R. A. 2 *j* Hartley
- Reesor, M. † *gr ed*
106 Morningside Dr.
- Reeve, M. E. † *gr ed* 525 W. 120
- Reeves, G. G. † 3 *ed* 503 W. 121
- Reger, R. 3 *ed* 76-1, Clifton
- Reges, E. † 2 *b*
304 Grand ave., Astoria
- Reibel, J. 3 *c*
117 Bond, Elizabeth
- Reich, L., Jr. 3 *l* 23 E. 44
- Reichhard, L. G. 1 *s*
87 Hamilton Pl.
- Reichardt, G. P. *phar* 115 W. 68
- Reichers, P. S. 1 *c*
287 Hancock, Bklyn.
- Reid, A. C. † 1 *b* 418-73 Bklyn.
- Reid, E. M. † *pl* 135 E. 52
- Reid, M. † 3 *b*
44 N. Tenth ave., Mt. Vernon
- Reid, W. E. 3 *s* 217 E. 79
- Reider, J. *phar* 795 E. 151
- Reidy, K. L. † 4 *ed* 169 E. 90
- Reidy, L. C. † *ed* 169 E. 90
- Reigart, K. M. † 3 *pa*
31 Euclid ave., Yonkers
- Reilly, M. M. † 2 *pa* Whittier
- Reiner, F. † *ed*
45 Strong Pl., Bklyn.
- Reinheimer, C. † 3 *b* Brooks
- Reiss, G. A. 1 *l*
1038 Grove, Elizabeth
- Reiss, L. *phar* 309 E. 74
- Remmey, R. E. † *ph*
147 S. Elliott Pl., Bklyn.
- Remson, W. 2 *l* 612 W. 116
- Renard, F. A. 2 *s* 216 W. 70
- Renshaw, A. 4 *s* 44 W. 44
- Rentschler, G. H. 3 *ed* Dunellen
- Requa, C. † 1 *b* 53 E. 51
- Retallack, J. B. 2 *s* Farnald
- Reuben, M. H. 3 *c* 205 W. 106
- Reumann, O. G. *pl*
129 Lexington ave.
- Reynolds, F. R. † *gr ed* Whittier
- Reynolds, J. B. *nm c* 210 W. 107
- Reynolds, R. † *ph* 501 W. 121
- Reynolds, R. J. 3 *m* 307 W. 70
- Rhinehardt, A. E. 3 *c* 429 W. 24
- Rhodes, F. M. † 4 *b* Brooks
- Rhodes, L. B. † 4 *ed* Whittier
- Ribble, M. † *Sp b*
St. Faith's House,
115 & Amsterdam ave.
- Ribble, M. D. † 3 *ed*
1161 Amsterdam ave.
- Rice, D. E. *gr ed*
386a Lafayette ave., Bklyn.
- Rice, F. W. 1 *m*
4701 Eleventh ave., Bklyn.
- Rice, I. L., Jr. 4 *s* Hotel Ansonia
- Rice, J., 2 *c* Hotel Ansonia
- Rice, W. L. *pl*
55 Pierrepont, Bklyn.
- Rich, E. W. † 3 *b*
44 S. Eighth ave., Mt. Vernon
- Rich, M. E. † 4 *ed*
27 Grant ave., Yonkers
- Richard, E. K. 3 *c* 12 W. 103
- Richards, E. H. † *ph* 422 W. 119
- Richards, F. S. *nm l*
660 Riverside Dr.
- Richards, H. *gr ed* White Plains
- Richards, H. D. 3 *ed* Dover
- Richards, J. K. 2 *c*
1 Main ave., Glendale
- Richards, L. 1 *m* 200 W. 57
- Richards, R. W. 2 *c* 616 W. 184
- Richards, W. C. 2 *l* 501 W. 121
- Richardson, C. † *gr ed* 420 W. 118
- Richardson, C. B. † 3 *ed*
191 Claremont ave.
- Richardson, G. W., Jr. 4 *s*
431 W. 117
- Richardson, I. C. † 2 *pa* Whittier
- Richardson, M. † 2 *pa* 7 W. 108
- Richardson, W. C. *ph* 500 E. 18
- Richmond, I. F. *phar* 115 W. 68
- Richter, A. † 4 *ed*
21 E. 30, Bayonne
- Richter, C. 4 *s* 550 W. 114
- Rideout, Z. R. *ph* 475 W. 12
- Riegel, G. H. 3 *l* 435 W. 117
- Riggio, C. 1 *c* 98 Fourth ave.

Riggs, B. R. 2 c
 434 Riverside Dr.
 Right, S. B. *phar* Hartley
 Righter, L. *gr ed*
 1108 Third ave., Asbury Park
 Riley, G. W. 1 c
 1418 St. Marks ave., Bklyn.
 Riley, J. L. *gr ed* Hartley
 Riley, M. T. *pl* 125 W. 92
 Rinaldi, A. E. *phar* 403 E. 12
 Riordan, K. L. † 3 *ed* Whittier
 Ripoli, S. L. *phar* 19 Downing
 Ritchie, E. W. 1 s
 1451 Washington ave.
 Ritt, H. L. *ph*
 253 Liberty ave., Bklyn.
 Rittenberg, B. H. † 2 b 5 W. 91
 Ritter, H. 3 *ed*
 857 Lafayette ave., Bklyn.
 Ritter, I. *phar* 288-7
 Ritter, L. J. *nm* 756 Jennings
 Ritti, M. M. † *ph* 521 E. 84
 Rittman, A. † *pl* 510 W. 124
 Rittman, W. F. *p* 510 W. 124
 Rivelson, S. M. 1 c
 430 Sheffield ave., Bklyn.
 Rives, F. B. 2 l 69 E. 79
 Roach, E. M. † *gr ed* 527 W. 121
 Roamtree, W. F. *gr ed* 307 W. 122
 Robb, A. T., Jr. 2 c
 77 Pilling, Bklyn.
 Robb, K. E. 1 j
 518 Beech, Richmond Hill
 Robbins, E. C. *pl* Livingston
 Robertiello, A. 1 m 318 W. 15
 Roberts, A. † 3 *ed* 546 W. 124
 Roberts, B. T. † 1 *pa*
 Hempstead
 Roberts, C. M. 1 l Livingston
 Roberts, E. † 3 *ed* 525 W. 120
 Roberts, G. B. 1 j Hartley
 Roberts, G. H. 2 c 540 W. 113
 Roberts, Mrs. H. W. † 2 b
 431 Hillside ave., Westfield
 Roberts, L. 2 c 627 W. 113
 Roberts, M. McK. † 4 *ed*
 Hempstead
 Roberts, R. B., Jr. 4 s
 152 & B'way
 Robertson, I. † 4 *ed*
 712-14 ave., Paterson
 Robin, E. J. *fa* 21 Bay 17, Bklyn.
 Robinson, A. M. † *p* 70 W. 164
 Robinson, C. R. 4 s 419 W. 115
 Robinson, E. M. † 4 *ed*
 514 W. 122
 Robinson, G. 1 j 130-2

Robinson, K. D. *ph* 331 E. 31
 Robinson, L. R. 3 c
 79 Carnegie ave., E. Orange
 Robinson, M. E. † *ed* Whittier
 Robinson, M. K. 1 l Livingston
 Robinson, M. K. *pl* Livingston
 Robinson, M. S. 1 c 16 E. 110
 Roche, A. S. 1 c Fernald
 Roché, J. A. 3 s 102 W. 90
 Rochester, M. † *ph*
 845 Lexington ave.
 Rockman, A. S. 2 s
 199 Columbia, Bklyn.
 Rockwell, H. W. *gr ed*
 16 Lake, White Plains
 Rockwell, R. L. 1 m 565 W. 113
 Rockwood, S. W. *gr ed*
 324 W. 46
 Rodgers, R. H. *gr ed* 546 E. 89
 Rodman, E. S. † 3 *ed* 525 W. 120
 Rodman, N. 1 s 124 W. 102
 Rogers, B. † *gr ed* Whittier
 Rogers, E. A. † 1 *pa* 209 W. 97
 Rogers, G. G. 1 c
 1 Wallace, Newark
 Rogers, H. K. † 3 *pa* Whittier
 Rogers, H. M. † 3 *ed* 601 W. 144
 Rogers, H. W. 2 c 240 E. 51
 Rogers, M. F. 4 c 518 W. 150
 Rogers, R. B. 1 m 260 W. 72
 Rogers, R. R. 4 m 1346 W. 57
 Rogers, S. A. † 1 b
 49 Locust, Flushing
 Rohdes, F. M. † 1 b Whittier
 Rohrs, G. C. 4 c 523 W. 141
 Roland, P. W. 3 s 3176 Park ave.
 Rolf, I. P. † 2 b 710 Oakland Pl.
 Roll, R. † *p* 201 E. 82
 Romeo, D. 2 s 752 E. 226
 Romer, H. D. † *gr ed*
 22 Maurice ave., Ossining
 Romey, T. B. *nm l* Livingston
 Romig, E. B. *pl* 600 W. 122
 Roney, J. L. 3 c 477 Hudson
 Ronzone, E. † *gr ed* Whittier
 Roome, S. V. † 3 b Brooks
 Root, E. K. † 4 *ed* 621-11, Bklyn.
 Root, G. F. 3d, *fa* 309 W. 92
 Root, I. L. † 3 *ed* Whittier
 Roper, M. R. † 2 *pa* Whittier
 Ros, L. † 3 b 808 West End ave.
 Rosalsky, M. D. 3 s
 1847 Madison ave.
 Rose, D. *phar*
 144 Railroad ave., White Plains
 Rose, S. † *phar*
 2027 Washington ave.

- Rose, S. E. *ph* Madison
 Roseff, A. 4 *c* 113 W. 4, Mt. Vernon
 Rosen, M. *phar* 153 Orchard
 Rosenau, J. D. 2 *m* 335 Crimmins ave.
 Rosenbaum, J. † 1 *b* 215 W. 101
 Rosenberg, D. *phar* 603 Prospect ave.
 Rosenberg, J. D. 1 *c* 62 E. 83
 Rosenblum, J. C. *gr ed* 309 Henry
 Rosenbluth, M. B. 4 *m* 207 Cathedral Parkway
 Rosendorf, M. F. † 4 *ed* Whittier
 Rosenfeld, A. *phar* 72 E. 4
 Rosenfield, A. J. *phar* 48 E. 103
 Rosengard, M. *phar* 95 Manhattan ave., Bklyn.
 Rosengarten, I. *ph* 1059 Lexington ave.
 Rosenkranz, P. 1 *pa* 2 Attorney
 Rosenman, S. I. 3 *c* 1860 Seventh ave.
 Rosenson, W. 4 *m* 249 W. 112
 Rosenstock, F. M. 2 *c* 1225 Madison ave.
 Rosenstein, H. † 2 *b* 545 W. 111
 Rosenthal, A. J. *gr ed* 249 W. 107
 Rosenthal, A. S. *fa* 899 E. 169
 Rosenthal, D. C. *ph* 961 St. Nicholas ave.
 Rosenthal, H. M. 3 *c* 178 Floyd, Bklyn.
 Rosenthal, J. C. † 4 *b* 21 Claremont ave.
 Rosenthal, J. M. *phar* 767 Dawson
 Rosenthal, W. J. 2 *l* 237 W. 113
 Rosenzweig, M. 2 *c* 903 Prospect ave.
 Ross, A. † 4 *ed* 251 Middleton ave., Newark
 Ross, A. C. *pl* 519 W. 121
 Ross, E. B. † *ed* 99 Claremont ave.
 Ross, F. A. *pl* 430 W. 119
 Ross, F. U. 1 *s* 152 E. 116
 Ross, G. † 1 *b* 852 Union, Bklyn.
 Ross, L. L. H. † 3 *ed* 600 W. 122
 Ross, M. E. † 2 *b* 138 St. Johns Pl., Bklyn.
 Ross, M. G. † 3 *b* 57 W. 53
 Ross, V. C. 2 *l* 59 Morris, New Brunswick
 Ross, W. N. *pl* 600 W. 122
 Rossi, G. M. 1 *s* 501 W. 121
 Rossiter, R. F. † 4 *ed* 505 W. 121
 Rotgard, I. 2 *c* 1703 Fulton ave.
 Roth, P. A. 1 *c* 600 West End ave.
 Roth, S. 4 *c* 102 W. 121
 Rothberg, H. I. 2 *l* Hartley
 Rothenberg, A. E. † 4 *b* 518 W. 143
 Rothenberg, B. 3 *l* 224 W. 141
 Rothenberg, D. M. 3 *c* 266-60, Bklyn.
 Rothenberg, W. 2 *c* 1246-39, Bklyn.
 Rothenstein, J. A. 3 *ed* 400 Vermont, Bklyn.
 Rothfeld, L. 1 *l* 163 W. 72
 Rothman, A. 1 *j* 64 E. 4
 Rothschild, J. L. 2 *l* 1338 Lincoln Pl., Bklyn.
 Rothstein, H. Z. 2 *l* 531 St. Pauls Pl.
 Rothstein, M. † *phar* 24 St. Marks Pl.
 Rowland, E. † 2 *b* 371 W. 120
 Rothwell, A. C. 4 *c* 144 W. 76
 Rotkowitz, H. S. 3 *s* 182 E. 72
 Roudin, H. F. † *phar* 335 Saratoga ave., Bklyn.
 Routh, M. † 1 *b* 18 Sylvan Ter.
 Rovillain, E. E. 2 *c* 322 W. 113
 Rowan, R. W. 2 *c* 616 W. 113
 Rowland, F. H. 1 *c* 531 W. 113
 Roy, M. M. 1 *l* Grand View, Nyack
 Rubel, F. R. 1 *l* Fernald
 Rubin, H. S. 2 *c* 315 B'way, Bayonne
 Rubin, J. † 1 *b* 1118 Madison, Bklyn.
 Rubin, S. 4 *c* 96 Williams ave., Bklyn.
 Rubinfeld, S. A. *phar* 210 Stanton
 Ruby, I. *phar* 5 W. 114
 Rudd, J. S. *fa* 400 West End ave.
 Ruderman, J. *phar* 65 Pike
 Ruderman, M. D. *phar* 2231 Fifth ave.
 Rudolphy, J. B. 3 *m* 116 Greenfield, Hoboken
 Rudy, I. O. † 3 *ed* 525 W. 120
 Ruebsam, E. † 4 *ed* Whittier
 Ruffier, G. *fa* Livingston
 Ruhl, A. † 1 *b* 49 Winthrop ave., New Rochelle
 Rukeyser, M. S. 1 *j* 790 Riverside Dr.

Runge, O. E. 4 *m*
783 Bushwick ave, Bklyn.
Runnels, R. O. *greed* Maplewood
Rushmore, E. 2 *l* Mamaroneck
Rushmore, E. M. † *pl*
129 Montague, Bklyn.
Russ, P. W. 2 *c* 903 Prospect ave.
Russel, M. † *ph* Brooks
Russell, A. † 1 *pa* 457 W. 164
Russell, E. B. *pl* 418 W. 118
Russell, W. F. *gr ed* 500 W. 121
Russo, J. L. *ph* 543 W. 123
Rust, E. G. † 2 *pa* Whittier
Rutledge, K. S. † 4 *ed* Whittier
Ryan, J. P. *pl* Hartley
Ryder, R. C. 3 *l* 133 W. 117
Ryer, J. B., Jr. *nm fa*
23 Canonbury Rd., Jamaica
Ryskind, M. 1 *j* 509 W. 146

Saalberg, H. S. 4 *s* 267 W. 89
Sabelson, A. M. † 1 *b*
319 Belmont ave., Newark
Sacharoff, L. S. 1 *c*
62 McKibben, Bklyn.
Sachs, E. † 1 *b* 38 W. 117
Sachs, J. *phar* 347 E. 10
Sachs, S. *ph* 160 E. B'way
Sachs, W. S. *gr ed* Furnald
Sadtler, C. B. 4 *s* 557 W. 124
Sage, P. † *pl* 135 E. 52
Sailer, T. H. P. *gr ed* 156 Fifth ave.
Sait, U. B. † *ph* 421 W. 121
Saliva, E. † *ed* Whittier
Salom, R. † 2 *b* Brooks
Salomon, A. L. † *pl*
258 Riverside Dr.
Salomon, A. V. 2 *m* 1065 Simpson
Salomonsky, E. A. *fa* 538 W. 124
Salsbury, M. 4 *s* 30 W. 96
Saltz, R. A. *phar*
1722 Bathgate ave.
Saltzberg, F. B. † *ph*
1045 Tinton ave.
Salvatore, P. J. 2 *c* 508 E. 116
Salwen, D. † *pl* 1526-43, Bklyn.
Salwen, E. 3 *c* 1526-43, Bklyn.
Salzer, M. 1 *s* 216 Avenue A
Salzman, A. B. † *pl*
5403 Fifteenth ave., Bklyn.
Salzman, E. † 1 *b*
5403 Fifteenth ave., Bklyn.
Salzman, M. *ph* 348 W. 58
Sammarco, E. *phar*
40 Willow, Port Chester
Sammis, W. H. 1 *s* Hartley
Sampter, J. E. † *ph* 514 W. 122

Samuel, M. 4 *c* 20 E. 41, Bayonne
Samuels, S. L. 3 *l* 540 W. 143
Samuels, S. S. 2 *c*
1165 Sterling Place, Bklyn.
Samworth, R. P. 2 *c* 567 E. 28
Sanborn, V. G. 3 *c* 201 W. 117
Sanborne, G. G. *pl* Livingston
Sanchez, M. S. *phar* 356 W. 23
Sanders, E. I. *gr ed* 26 E. 117
Sanders, G. 1 *c* 64 W. 124
Sanders, M. S. † *ph* 417 W. 120
Sanders, T. M. 3 *m* 562 W. 113
Sandhusen, L. H. 4 *c*
295 E. 4, Bklyn.
Sands, E. A. † *ph*
162 Fairview ave., Jersey City
Sands, W. H. 3 *c*
178 Archer ave., Mt. Vernon
Sanford, F. D. 1 *l* 147 Avenue B
Sanker, S. *phar* 1350 Fifth ave.
Sarafian, K. A. † 4 *ed*
110 Lexington ave.
Sargent, M. † 1 *pa* Whittier
Sarli, W. *phar* 11 Navy, Bklyn.
Sauer, N. A. † 3 *ed* 430 W. 119
Saul, A. M. † 1 *b*
1 Dusenbury Pl., White Plains
Saul, B. 1 *s* 175 E. 112
Saunders, E. † 3 *ed* 479-2, Bklyn.
Savage, T. L. † 4 *ed* 525 W. 120
Sawyer, A. F. 1 *c* Furnald
Saxe, W. V. 3 *l* 75 E. 81
Sayer, R. 1 *s* 20 Murray
Sayles, C. M. † 4 *ed* Whittier
Sayre, E. B. † 3 *b* Brooks
Scales, S. B. 3 *s*
62 Garrison ave., Jersey City
Scandrett, R. B., Jr. 2 *l*
419 W. 119
Scardaccione, A. A. 1 *c*
669 E. 183
Scarlett, A. J., Jr. *p* Furnald
Scatchard, G. *p* Furnald
Sceva, L. 3 *c* 523 W. 135
Schachter, M. F. *p* 350 E. 4
Schad, F. 1 *s*
381 Monroe, Bklyn.
Schaefer, E. *phar* 161 W. 64
Schaefer, H. *p*
801a Willoughby ave., Bklyn.
Schaefer, L. A. † 1 *b* 416 E. 175
Schang, F. C., Jr. 3 *j* 166 W. 129
Schanger, J. 1 *s* 47 W. 99
Scharfenstein, G. I. † 4 *ed*
525 W. 120
Scharmann, A. C. 2 *l*
834 Lafayette ave., Bklyn.

- Schauss, D. *ph* 600 W. 122
 Schear, S. A. *ph* 1129 Teller ave.
 Schechter, A. E. † 3 *b*
 468 Riverside Dr.
 Schechter, F. I. 2 *l*
 468 Riverside Dr.
 Schede, J. W. 1 *s*
 289 N. Fulton ave., Mt. Vernon
 Scheinbach, M. H. 4 *ed*
 132 Goerck
 Scheindlinger, M. *phar*
 772 Forest ave.
 Schene, L. H. H. *fa*
 2981 Perry ave.
 Scherpich, E. A. 2 *c* 540 W. 113
 Scherrer, E. M. † 3 *b*
 224 S. B'way, Tarrytown
 Schifffenhaus, I. † 2 *pa*
 35 Eckert ave., Newark
 Schiffer, J. † 4 *ed* 501 W. 121
 Schiffman, C. D. 2 *s*
 1973 Seventh ave.
 Schimansky, I. † *phar*
 91 Tysen, New Brighton
 Schindler, G. † 3 *b*
 929 West End ave.
 Schlang, L. † 1 *b* 435-4, Bklyn.
 Schleicher, V. H. *pl* Farnald
 Schleiter, F. *ph* 419 W. 149
 Schlesinger, B. † 2 *pa*
 275 Central Pk. W.
 Schlesinger, G. † *pl*
 75 W. Tremont ave.
 Schlesinger, L. A. 2 *c* 256 W. 97
 Schliffer, W. H., Jr. *p*
 83 S. 2, Bklyn.
 Schloeman, L. † 3 *ed* Whittier
 Schloss, C. *ph* 903 Prospect ave.
 Schloss, J. M. 2 *s* 288 W. 92
 Schloussner, R. C. 2 *m* 360 W. 23
 Schlueter, E. R. *pl* 600 W. 122
 Schmalzried, E. W. 1 *m*
 47 W. 18, E. Orange
 Schmidt, C. H. † *p*
 31 N. Bleeker, Mt. Vernon
 Schmidt, E. A. 1 *s* 479 W. 152
 Schmidt, E. M. N. A. † 3 *b*
 317 High, W. Hoboken
 Schmidt, F. B. 4 *s* 618 W. 113
 Schmidt, M. † 3 *pa* 720 W. 181
 Schmitt, R. L. 1 *c* Hartley
 Schmuckler, J. 3 *G*
 1429 Madison ave.
 Schnacke, F. D. 3 *l* Livingston
 Schneer, A. H. *p* 1420 Fifth ave.
 Schneider, E. T. † 3 *ed*
 1026 Garden, Hoboken
 Schneider, H. W. 2 *c*
 1169 Greene ave., Bklyn.
 Schneider, L. V. *phar* Kingston
 Schoeler, H. R. 2 *c* 227 E. 124
 Schoenberg, P. *phar* 37 W. 98
 Schoenhals, M. K. † 3 *ed*
 500 W. 122
 Schoenzeit, E. 2 *c* 15 W. 115
 Schoettle, G. H. *gr ed*
 2130 Mapes ave.
 Scholer, W. *nm fa* 537 W. 123
 Schoonover, K. † 4 *ed* Whittier
 Schorr, M. I. † 4 *b*
 2426 Grand ave.
 Schott, M. † 4 *ed* 700 W. 178
 Schrader, F. 4 *c* Hartley
 Schram, C. F. N. 2 *m*
 35 Pineapple, Bklyn.
 Schrenkeisen, R. M. 1 *s*
 1070 Madison ave.
 Schulman, J. † 4 *b*
 1450-49, Bklyn.
 Schulte, A. P. † 1 *b* 132 E. 23
 Schulte, H. A. 1 *c*
 29 Stratford Pl., Newark
 Schultz, A. M. † 2 *pa* Whittier
 Schultz, L. *phar* 590 Prospect ave.
 Schulz, A. W. 1 *c*
 1186 Madison ave.
 Schulz, O. G. 2 *s* 212 E. 49
 Schulz, P. *fa* 506 W. 143
 Schumacher, F. R. *phar*
 24 Devon Ter., Kearney
 Schumann, C. H., Jr. 3 *s*
 580 E. 165
 Schupp, D. L. † 3 *ed*
 42 Riverside Dr.
 Schurman, G. W. 4 *s* 330 E. 152
 Schuster, M. L. 1 *c*
 2087 Amsterdam ave.
 Schutz, M. E. † *pl*
 803 Union, Bklyn.
 Schuyler, E. L. † 3 *ed*
 49 Beech Road, Ridgewood
 Schuyler, G. † 2 *b* 509 W. 142
 Schwable, B. † 4 *ed* 434 W. 120
 Schwan, R. C. 3 *ed* Fredonia
 Schwanda, W. E. 1 *c*
 138 Grove, Winfield Jct.
 Schwarte, V. M. † *ph* 402 W. 124
 Schwartz, A. 3 *s*
 2152 Belmont ave.
 Schwartz, D. *phar* 584 Broome
 Schwartz, H. H. 1 *c*
 375 West End ave.
 Schwartz, J. 1 *l* 46 Pike
 Schwartz, M. *phar* 610 E. 113

Schwartz, M. K. † 2 *pa* Whittier
 Schwartzman, F. † 4 *b*
 1489 Bryant ave.
 Schwarz, A. A. *ph* 52 E. 3
 Schwarz, H. 1 *c* 601 W. 113
 Schwarz, M. W. 4 *s* 471 W. 140
 Schwarz, P. 1 *l* 121 E. 10
 Schwarzkopf, C. B. † 1 *b*
 138 E. 95
 Schwarztrauber, E. E. *pl*
 Livingston
 Schwarzwaelder, F. † 3 *b* Brooks
 Schwed, I. 2 *l*
 196 W. High, Somerville
 Schweis, E. M. † *gr ed* 525 W. 123
 202 W. 124
 Schweitzer, D. J. *pl* 202 W. 124
 Schwersens, R. *phar*
 643 Monroe, Bklyn.
 Schwind, E. E. 1 *s*
 447 Ft. Washington ave.
 Schwinzer, J. R. 1 *m*
 347 Madison ave.
 Sciacca, J. *phar* 102 W. 115
 Scilipoti, L. W. *phar*
 1726 Van Buren
 Scofield, G. W. 2 *c*
 400 Riverside Dr.
 Scofield, L. S. 1 *c*
 362 Riverside Dr.
 Scott, E. H. 4 *ed*
 50 Morningside Dr.
 Scott, E. L. *p* 437 W. 59
 Scott, G. A. *p*
 4 Valley Place, Edgewater
 Scott, H. † 1 *b* Brooks
 Scott, H. M. *pl* 600 W. 122
 Scott, K. K. † *ed* Whittier
 Scott, R. H. *ph*
 481 Bedford ave., Bklyn.
 Scribner, G. K. 1 *s*
 121 Church, Boonton
 Scrugham, M. † *pl* Whittier
 Scudder, F. D. 4 *m* 350 W. 58
 Scully, F. J. 1 *j* Furnald
 Seadler, M. B. † 1 *b* 416 W. 122
 Seadler, S. F. 1 *j* 416 W. 122
 Sealock, W. E. *gr ed* Livingston
 Sealy, A. † *gr ed* Lynbrook
 Seaman, J. 1 *m*
 463 Hawthorne ave., Yonkers
 Searle, E. † 1 *pa*
 130 Claremont ave.
 Sechler, A. M. † 3 *ed* Whittier
 Seddon, K. V. † 4 *ed*
 247 New York ave., Bklyn.
 See, C. S. 1 *c* Furnald

See, M., Jr. 4 *s*
 27 Forster ave., Mt. Vernon
 Seelig, I. *fa*
 296 Bradford, Bklyn.
 Seely, C. E. † *p* 523 W. 121
 Seelye, L. H. *ph* 600 W. 122
 Seibels, R. E. 4 *m* 471 Park ave.
 Seibert, H. † *ph*
 2230-83, Bklyn.
 Seidler, E. † 4 *pa*
 12 Webster ave., Jersey City
 Seiferd, E. L., † 1 *pa* 320 E. 86
 Seiferling, K. F. J. A. 1 *s*
 131 Webster ave., Bklyn.
 Seigler, F. M. † 4 *b* 349 Grand
 Seill, H. J. 3 *m* 164 E. 119
 Seipp, E. † 2 *b* 188 Claremont ave.
 Seitz, J. E., Jr. 2 *s*
 184 Hunterdon, Newark
 Selden, E. † 3 *ed* 405 W. 118
 Seldner, G. E. † 3 *b*
 10 Baldwin Place, Yonkers
 Seldowitz, M. 1 *c*
 600 Fifth ave., Bklyn.
 Selig, S. 3 *l* 250 Clinton
 Seligman, E. 3 *l* 324 W. 86
 Seligman, I. *ph* 100 Ave. C
 Seligman, R. C. † *nm b* 38 E. 50
 Selikowitz, W. 1 *s*
 1017 Intervale ave.
 Sellers, L. † *ph* 419 W. 121
 Semmes, D. R. *p* Furnald
 Sen, J. T. E. 4 *s* Livingston
 Senft, W. J. *phar*
 855-60, Bklyn.
 Sengstaken, C. W. 1 *s* 558 W. 113
 Sengstaken, J. H. 4 *s* 558 W. 113
 Sermolino, M. † 1 *b* 40 W. 8
 Sessions, J. † *pl* 416 W. 122
 Sesta, J. A. *phar*
 388-1, Jersey City
 Shackleton, C. E. † 4 *b* 219 E. 27
 Shaefer, N. † 3 *ed* Whittier
 Shalleck, J. *nm l*
 1840 Seventh ave.
 Shands, J. W. 3 *l* Livingston
 Shanholt, H. 2 *c*
 385 Sackman, Bklyn.
 Shanks, R. H. *gr ed* Livingston
 Shannon, A. † 4 *b* 324 W. 71
 Shapiro, M. *phar*
 971 Amsterdam ave.
 Shapiro, T. A. 1 *c*
 1205 Eastern Parkway, Bklyn.
 Sharlitt, M. *gr ed* Pleasantville
 Sharrard, K. † 4 *ed* 530 W. 123
 Shaw, A. I. † 3 *ed* Whittier

- Shaw, F. D. 2d 4 c
434 Riverside Dr.
- Shea, E. H. 2 c 458 W. 165
- Shears, L. A. *ph* 203 W. 103
- Sheehan, P. S. 3 *ed* 129 E. 97
- Sheffer, E. C. 1 c 633 W. 115
- Sheinaus, L. *phar* 506 W. 179
- Sheip, S. S. 4 *j* Livingston
- Sheldon, A. B. *gr ed* Livingston
- Sheldon, B. S. 1 c 21 W. 54
- Sheldon, U. L. W. † 3 *ed* 540 W. 122
- Sheldon, W. R. † 1 *pa* Whittier
- Shelley, G. L. *pl* 37 Burchard ave., E. Orange
- Shepard, R. F. 1 c 207 S. 11, Newark
- Shepard, E. † *nm b* 157 Columbia Heights, Bklyn.
- Sheppard, B. M. *gr ed* Dobbs Ferry
- Sheppard, E. D. † 4 *ed* 95 State, Hackensack
- Sheppard, E. P. † 4 *ed* Whittier
- Sherer, G. † 4 *ed* 1402 Putnam ave., Plainfield
- Sheridan, J. A. *p* 206 E. 17
- Sheridan, S. J. 1 s 420 W. 259
- Sherline, A. E. † 4 b 1893 Vyse ave.
- Sherman, H. † 3 *ed* 243 Woodworth ave., Yonkers
- Shewmake, E. F., Jr. *ph* 503 W. 121
- Shibley, G. S. 2 *m* 434 W. 164
- Shibley, M. 2 c 106 E. 86
- Shields, H. 1 s Hartley
- Shields, J. † *ed* Whittier
- Shimmon, J. M. 1 c Hartley
- Shintag, J. 2 l 50 W. 119
- Shipley, J. P. *ph* 508 W. 162
- Shipman, H. B. † 4 b Brooks
- Shively, B. F. *gr ed* 600 W. 122
- Shlevin, E. L. 1 c 161 N. 6, Bklyn.
- Sholes, S. 2 l 228 Ave. A
- Short, L. L. 1 l 780 Madison ave.
- Showers, R. W. *pl* Rutherford
- Shrewsbury, W. E. 3 l 148 Van Buren, Bklyn.
- Shrive, L. † 2 b 305 Warburton ave., Yonkers
- Shropshire, O. E. † *ph* 114 Morningside Dr.
- Shugart, F. C. 3 *m* 359 W. 57
- Shukri, A. 1 l 92 Morningside ave.
- Shulansky, J. 4 *m* 1824 Lexington ave.
- Shultz, B. E. *pl*
- Shumway, W. *p* 472 E. 18
- Shuster, C. M. 3 *ed* Hartley
- Shutt, E. R. 1 l Livingston
- Shwalb, H. *phar* 607 Summit ave., Jersey City
- Sibeald, J. O. 1 *m* 427 W. 59
- Siegel, B. 1 c 172 W. 79
- Siegel, F. † 1 b 741 Jennings
- Siegel, F. 3 *ed* Tottenville
- Siegel, F. A. † 1 b 167 Ashburton ave., Yonkers
- Siegel, J. 3 c 203 W. 117
- Siegel, M. 2 s 20 E. 97
- Siegel, S. *phar* 964 Second ave.
- Siegler, J. 2 c 237 Newark ave., Jersey City
- Siegler, L. 4 s 1552 Minford Pl
- Siegrist, M. † *ph* 500 W. 122
- Siemon, W. S. 3 l Livingston
- Siena, W. R. *phar* 25-15, College Point
- Siff, M. † 1 b 1117 Forest ave.
- Silbert, S. 1 *m* Hartley
- Silliman, H. E. 3 s 19 Schenck ave.
- Silver, M. I. *nm fa* 107 E. 96
- Silverman, H. † *phar* 58 E. 110
- Silverman, I. 1 s 30 Riverdale ave., Yonkers
- Silverman, L. B. † *nm b* 45 E. 75
- Silverstein, A. 2 c 320 Convent ave.
- Silverstein, R. 3 l 559 W. 141
- Simon, H. 4 *ed* 320 E. 77
- Simmonds, F. H. 3 s 49 Caroline ave., Yonkers
- Simmons, I. † *gr ed* 167 Joralemon, Bklyn.
- Simmons, J. L. *pl* Hartley
- Simmons, K. C. † *gr ed* 167 Joralemon, Bklyn.
- Simmons, M. † 2 b 142 Woodworth ave., Yonkers
- Simon, M. *phar* 189 W. 136
- Simon, S. B. 1 s 68 E. 109
- Simonds, E. F. *p* 524 W. 123
- Simonds, F. M., Jr. 2 c 31 Colden ave., Flushing
- Simons, J. S. *pl* 422 W. 115
- Simonson, A. † 2 *pa* Hollis
- Simpson, E. M. † *ed* 470 Convent ave.
- Simpson, H. N. *gr ed* 108 Woodward ave., Rutherford

Sinclair, D. B. 4 m 471 Park ave.
 Sinclair, E. *phar* 115 W. 68
 Sinclair, E. N. † 3 ed 408 W. 115
 Sinclair, M. † 4 ed 408 W. 115
 Singer, A. 2 l 312 Stevens, W. Hoboken
 Singer, I. N. 1 c 20 E. 100
 Sindelar, C. *gr ed* 1421 Crotona ave.
 Sinopoli, A. F. † *gr ed* 525 W. 120
 Sirkin, J. *phar* 120 Mulberry, Newark
 Sisson, D. F. *gr ed* 566 W. 162
 Skarvan, S. J. 1 c 550 W. 114
 Skeele, E. B. † *pl* 1356 University ave.
 Skidmore, L., Jr. 3 l 18 Fernwood Rd., Summit
 Skinker, D. A. † 3 b 230 W. 101
 Skinner, F. B. † 4 ed Whittier
 Skipp, H. J. *ph* Furnald
 Slack, M. H. 1 c Hartley
 Slade, E. B. 4 s 600 W. 142
 Slager, E. J. † 1 *pa* 100 Morningside Dr.
 Slater, A. 3 l 100 W. 121
 Slatkin, H. 3 m 68 E. 97
 Slattery, E. M. † 3 ed 82 Pierrepont, Bklyn.
 Slayton, G. N. *nm l* Livingston
 Slayton, M. H. 3 c 22 E. 114
 Slight, J. P. † 3 ed 106 Morningside Dr.
 Sloan, M. J. † *ed* 420 W. 121
 Slocum, A. E. † 3 *pa* 359 Main, Port Chester
 Slosson, P. W. *pl* 530 W. 123
 Smale, W. P., Jr. 4 m 470 W. 146
 Smart, W. B. † 2 *pa* 326 Audubon ave.
 Smeaton, E. N. † 4 ed 111 N. Terrace ave.,
 Mt. Vernon
 Smedira, N. A. *phar* 163 Mott
 Smeeton, C. A. † 3 ed 227 Clerk, Jersey City
 Smerling, F. A. *ph* 546 W. 124
 Smilari, M. A. 2 s 940 E. 180
 Smith, A. 2 s 236 S. Regent, Port Chester
 Smith, A. C., Jr. 3 l Babylon
 Smith, A. D. 2 c 202 W. 133
 Smith, A. deF. 3 m 400 Convent ave.
 Smith, A. M. † *pl* 135 E. 52
 Smith, A. W. † 3 ed Whittier

Smith, B. G. 1 l 361-4, Bklyn.
 Smith, B. R. 1 s 57 Turner Pl., Bklyn.
 Smith, C. B., Jr. 3 c Furnald
 Smith, E. C. 1 c Hartley
 Smith, E. J. *phar* 125 E. 84
 Smith, E. L. † 4 ed Whittier
 Smith, E. T. 1 l Livingston
 Smith, F. E. † 4 ed Whittier
 Smith, F. J. 4 ed Hartley
 Smith, F. R., Jr. *fa* 233 Decatur, Bklyn.
 Smith, G. A. 3 c 46 Gold, Port Chester
 Smith, G. B. 2 m 55 Hart, Bklyn.
 Smith, G. H. *ph* 600 W. 122
 Smith, G. H. † 3 ed Whittier
 Smith, H. A. *phar* Glen Cove
 Smith, H. B. 1 s 540 W. 113
 Smith, H. C. 1 s 1833 Bathgate ave.
 Smith, H. E. 3 m 420 Riverside Dr.
 Smith, H. F. † 3 ed Whittier
 Smith, H. M. † 3 ed Whittier
 Smith, H. P. † *ph* 417 W. 118
 Smith, H. Van A. † 2 b 946 Boulevard, Astoria
 Smith, I. D. 3 s 129 W. 69
 Smith, I. L. *phar* 688 B'way, Bklyn.
 Smith, I. M. † 3 ed 374 Clinton ave., Newark
 Smith, J. A. † 4 ed 509 W. 122
 Smith, J. F. † 3 *pa* 311 W. 95
 Smith, K. 2 c 633 W. 115
 Smith, L. G. 3 ed 319 W. 116
 Smith, L. V. 3 ed Hartley
 Smith, M. 4 ed 106 Morningside Dr.
 Smith, M. B. *gr ed* Furnald
 Smith, M. F. † 3 ed 373 Prospect ave., Hackensack
 Smith, M. L. † 2 *pa* 21 W. 122
 Smith, M. L. † *ed* Whittier
 Smith, M. McK. † 2 b 200 Claremont ave.
 Smith, N. C. 2 l Livingston
 Smith, O. K. *nm s* Hartley
 Smith, P. 1 j Livingston
 Smith, P. J. *phar* Cedar Lane, Ossining
 Smith, R. B. 1 j Furnald
 Smith, R. B. 1 c 103 Glenwood ave., E. Orange

- Smith, R. G. *pl* Livingston
 Smith, R. K. 4 *c* 1109 Amsterdam ave.
 Smith, R. L. † 4 *ed* 525 W. 120
 Smith, S. E. *fa* 558 W. 113
 Smith, S. J. † *gr ed* 519 W. 121
 Smith, S. W. 4 *s* 558 W. 113
 Smith, T. A. 4 *m* 346 W. 57
 Smith, T. D. † *nm fa* 35 Claremont ave.
 Smith, T. E., Jr. 2 *l* Hartley
 Smith, T. P. *ph* 302 Barclay, Flushing
 Smith, W. A. *phar* 360 Main, Danbury
 Smith, W. E. *pl* 537 W. 123
 Smith, W. H. *gr ed* 114 S. Arlington ave., E. Orange
 Smith, W. L. 1 *l* Baldwin
 Smithers, A. F. 4 *c* 425 W. 144
 Snagg, G. K. † 1 *b* 43 Sound View, Port Chester
 Snell, H. B. † 3 *pa* 335 Highland ave., Mt. Vernon
 Snow, E. *nm c* 601 W. 127
 Snow, M. R. † *gr ed* 386-4, Bklyn.
 Snow, R. † 4 *ed* 49 E. 133
 Snyder, D. E. 3 *l* Livingston
 Snyder, F. H. 3 *m* 350 W. 58
 Sobin, J. 3 *m* 655 Boulevard, Bayonne
 Sockman, R. W. *pl* 600 W. 122
 Soderstrom, G. A. 2 *m* 119 W. 63
 Sohon, F. W. 3 *s* 1344 Chisholm
 Sohn, J. G. C. *nm fa* 412 W. 115
 Sokohl, J. N. *pl* 130 E. 117
 Sokoloff, A. N. 1 *s* 24 Lewis ave., Bklyn.
 Sokolsky, G. E. 1 *j* 915 Fox
 Sokomsky, J. 1 *s* 554 Van
 Solender, S. L. 3 *ed* Pleasantville
 Solomon, E. † 1 *b* 633 Willoughby ave., Bklyn.
 Solomon, M. L. † *p* 56 W. 115
 Solosko, A. † *phar* 239 E. 5
 Solovei, S. 1 *m* 68 Thatford ave., Bklyn.
 Solow, M. A. *phar* 293 E. 3
 Somers, C. J. *phar* 894 Montgomery, Jersey City
 Somerville, R. 4 *c* 477 Hudson
 Sommer, B. 2 *l* 1350 Madison ave.
 Sommerville, W. B., Jr. 1 *s* Depot Lane, Washington Bridge
 Sondheim, H. † 3 *b* 431 Riverside Dr.
 Sondheim, S. N. † 2 *pa* 435 Greenwood ave., Richmond Hill
 Sonn, I. M. † 4 *ed* 89 Sherman Pl., Jersey City
 Soons, S. G. C. 1 *l* Grant ave. & 163
 Soper, F. J. *nm fa* 501 W. 121
 Sophrin, M. 3 *c* 237 Hart, Bklyn.
 Soskin, L. † 3 *b* 595 Beech Ter.
 South, C. N. † 3 *ed* 65 Morningside ave.
 Spalding, S. C. 3 *s* 604 W. 114
 Spalthoff, W. D. 4 *s* 540 W. 113
 Spare, B. Y. *pl* 600 W. 122
 Sparkman, E. J. † 1 *pa* 448 Ellison, Paterson
 Speece, H. E. *gr ed* 14 S. 10 ave., Mt. Vernon
 Spence, P. S. 3 *c* 251 W. 92
 Spencer, E. A. B. 1 *l* 1124 Tinton ave.
 Spencer, L. H. *nm s* 369 Scotland Road, S. Orange
 Spensley, N. B. † 3 *ed* Whittier
 Sperling, E. M. 1 *c* 215 W. 98
 Sperling, H. 4 *ed* 391 Marlboro Road
 Spiegel, D. R. † 4 *ed* 1239 Madison ave.
 Spier, F. 1 *c* 209 Dyckman
 Spiero, G. B. 2 *j* 92 St. Nicholas ave.
 Spingarn, S. 1 *c* 442 Clinton ave., W. Hoboken
 Spiro, G. C. 2 *s* 10 W. 12
 Spissman, F., Jr. *nm fa* Farnald
 Spitale, G. J. *phar* 123 1/2 Crystie
 Spitz, F. M. 4 *c* Hartley
 Spohr, W. † 4 *ed* Whittier
 Sporn, P. 1 *s* 63 Canal
 Spottiswood, W. *phar* 506 W. 177
 Sprague, E. L. † 4 *ed* Whittier
 Sprague, H. A. 4 *ed* 304 Broad, Newark
 Springer, A. P. *ph* 608 W. 140
 Springer, C. S. 1 *c* 608 W. 140
 Springer, W. M. 3 *s* 1308 Bushwick ave., Bklyn.
 Springmeyer, F. T. 1 *c* 833 Hudson, Hoboken
 Springstead, O. J. † *gr ed* 611 W. 113
 Sprung, J. 1 *s* 126 W. 118
 Spurgeon, R. H. *fa* 639 St. Johns Pl., Bklyn.

Squires, M. C. † 2 *pa* Whittier
 Squires, L. W. 1 *s* 540 W. 124
 Staats, F. † *nm b* 30 W. 54
 Staats, M. † *nm b* 434 W. 120
 Staber, W. B. *gr ed* Englewood
 Stableford, R. G., Jr. 4 *c*
 8 Poplar, Bklyn.
 Stadie, W. C. 2 *m* 270 Willis ave.
 Stadler, B. F. † 4 *ed* 701 W. 78
 Stall, H. L. † 1 *pa* 620 W. 116
 Stam, P., Jr. 3 *c*
 146 N. 7, Paterson
 Stamm, C. L. † *ph*
 25 New York ave., Mt. Vernon
 Stanbrough, D. † 3 *b* 306 W. 103
 Stander, N. † 1 *b*
 1488 Bryant ave.
 Stanford, D. M. † 3 *ed* Whittier
 Stanford, F. C. 1 *l* Livingston
 Stangnatt, M. V. † *ph*
 43 Bayview ave., Jersey City
 Stanley, E. M. † 2 *pa*
 213-33, Woodcliffe-on-Hudson
 Stanley, S. T. 3 *m*
 420 Pacific, Bklyn.
 Stanton, A. N. *pl* 600 W. 122
 Stanton, B. † *ph*
 757 Quincy, Bklyn.
 Stanton, E. M. † 3 *ed* Whittier
 Stanton, M. B. † *gr ed* 414 W. 120
 Staples, J. † 1 *b*
 120 N. Columbus ave.,
 Mt. Vernon
 Starbuck, F. I. 1 *s*
 132 S. B'way, White Plains
 Stark, J. *phar* 1434 Second ave.
 Stark, R. A. † *gr ed* Whittier
 Starke, E. P. 1 *c*
 532 Decatur, Bklyn.
 Starkweather, E. R. † 4 *ed*
 551 W. 172
 Starr, S. † 3 *ed*
 468 Riverside Dr.
 Stead, M. F. *fa* 612 W. 116
 Stearns, G. R., Jr. 2 *l* Hartley
 Stearns, W. W. 3 *m*
 185 Saratoga ave., Yonkers
 Stebbins, V. M. † *Sp b* Brooks
 Steckler, E. L. 2 *l* 61 W. 88
 Stegar, W. H. *gr ed* Garfield
 Steel, J. A. 3 *m* 503 W. 172
 Steele, I. M. † 4 *ed*
 15 Claremont ave.
 Steem, O. A. *ph*
 Steenburgh, E. M. *phar*
 897 Lake, Newark

Steffen, G. W. 4 *s* 551 W. 157
 Steffens, J. A. 2 *s*
 180 Utica ave., Bklyn.
 Steffensen, K. K. 3 *l* 612 W. 135
 Stehlby, E. T. 3 *s*
 153 Clinton ave., New Rochelle
 Stein, J. D. 4 *s* 2169 Fifth ave.
 Stein, M. 3 *c* 226 W. 140
 Stein, S. D. 2 *l*
 81 Claremont ave.
 Steinbruch, H. 2 *s*
 206 Eighth ave., Bklyn.
 Steiner, C. I. 1 *s*
 596 Jackson ave., Long Island City
 Steiner, L. 2 *c*
 51 Baldwin ave., Newark
 Steinhart, A. *phar* 544 Fox
 Steinhart, L. A. 2 *l* 23 E. 92
 Steinholtz, R. 2 *m* 106 W. 115
 Steinman, I. 1 *m* 416 E. 181
 Steinmetz, W. G. *pl*
 1111 Portland ave., Chester Park
 Steinphal, J. † 1 *b* 123 E. 91
 Steitz, A. † *nm pa* 420 W. 119
 Stenbuck, J. B. 1 *m*
 422 DeKalb ave., Bklyn.
 Stenguist, J. L. 4 *ed*
 1120 Amsterdam ave.
 Stephens, G. † 4 *b*
 447 E. 4, Bklyn.
 Stephens, L. W. *ph* 600 W. 122
 Stephenson, R. A. 2 *c* 375 W. 126
 Sterling, W. D. F. *gr ed* 504 W. 136
 Sterman, M. 1 *c* 71 E. 109
 Stern, Mrs. A. *nm b* 18 E. 75
 Stern, C. H. 1 *c* 18 E. 93
 Stern, D. † 1 *b*
 3220 Glenwood Rd., Bklyn.
 Stern, D. McG. 1 *j* 26 W. 119
 Stern, D. S. 3 *c* 115 Division
 Stern, E. † 2 *b* 63 E. 75
 Stern, L. 2 *c*
 556 Evergreen ave., Bklyn.
 Stern, R. M. *pl* 556 W. 140
 Sterrett, M. C. † 3 *ed* 503 W. 121
 Steuer, B. 1 *l* 509 E. 82
 Steuerwald, H. † *gr ed* 467 E. 136
 Steup, R. B. *ph* 229 E. 124
 Stevens, A. M. 3 *m*
 227a Willoughby ave.,
 Bklyn.
 Stevens, C. E. 3 *s*
 71 Hillside Pl., Newark
 Stevens, H. C. 4 *s* 616 W. 113
 Stevens, M. M. † 1 *b*
 2094 Fifth ave.

- Stevens, M. S. † *ph*
141 South, Morristown
- Stevens, N. C. 3 *m*
45 Madison ave., Morristown
- Stevenson, J. M. *ph* 600 W. 122
- Stevens, B. C. *phar* 222 W. 71
- Stewart, B. M. *pl*
- Stewart, E. G. † *p* 457 W. 123
- Stewart, J. A. 4 *s* 467 W. 164
- Stewart, J. C. 1 *l* Livingston
- Stewart, J. H. † 4 *pa* 617 W. 127
- Stewart, M. † 4 *ed*
125 Riverside Dr.
- Stewart, M. *phar* 504 W. 131
- Stewart, T. B. *gr ed* 525 W. 120
- St. George, A. V. 4 *m*
344 Ogden ave., Jersey City
- Stickland, G. † 1 *b*
444 Classon ave., Bklyn.
- Stiebel, M. † 2 *pa* 251 W. 92
- Stiles, E. † 3 *b* 250 W. 129
- Stillier, H. 3 *ed* 31 W. 116
- Stillman, W. A. 1 *m* 142 W. 91
- Stillman, W. M. 3 *c* Hartley
- Stinson, J. W. *nm l* 527 Fifth ave.
- Stirn, E. E. † 4 *ed* 957 E. 156
- Stitt, E. W., Jr. 1 *l* 605 W. 179
- St. John, G. E. † 2 *b*
2619 Bedford ave., Bklyn.
- Stobaugh, C. W. † 2 *b* Brooks
- Stockton, E. M. † 2 *pa*
Hudson ave., Englewood
- Stockwell, A. D. † 3 *ed* 525 W. 120
- Stoddard, A. G. † 3 *pa*
1163 Clay ave.
- Stoddard, M. L. † 4 *ed* Whittier
- Stoetzel, R. E. *nm fa* 604 W. 114
- Stoff, C. G. † 2 *b*
22 Mt. Morris Pk. W.
- Stoiber, A. F. 1 *s* Fernald
- Stokes, T. O. 2 *l* 526 W. 114
- Stokes, V. † 3 *b* Brooks
- Stoll, G. *phar*
774 Bergenline ave.,
W. New York
- Stollmack, M. M. 1 *l* 127 W. 141
- Stone, C. G., Jr. 3 *s*
273 Rich ave., Mt. Vernon
- Stone, C. W. 1 *c* 102 W. 80
- Stone, G. A. † *p* 3305 B'way
- Stone, M. 1 *s* 208 W. 140
- Stone, R. H. 3 *s* Hartley
- Stone, S. G. 1 *c* 7 W. 10
- Stone, V. E. † 4 *ed*
100 Morningside Dr.
- Stoner, T. W. *pl* 523 W. 121
- Storer, D. † 3 *b* Glen Cove
- Storer, H. M. † 4 *ed*
530 Manhattan ave.
- Stork, W. L. 3 *s*
212 Hancock ave., Jersey City
- Storm, C. M. *phar* 115 W. 68
- Storms, D. E. † 2 *pa*
Dobbs Ferry
- Stout, P. D. *pl* 600 W. 122
- Stowell, C. R. † *pl*
435 Riverside Dr.
- Stowell, W. A. *p* 140-10, Trenton
- Stradford, C. F. 2 *l* 49 E. 132
- Straffin, H. A. 3 *c* 225 W. 35
- Strang, A. G. † 4 *ed* Whittier
- Strang, D. † 1 *b* 523 W. 156
- Strang, J. A. 2 *s* 616 W. 113
- Strange, R., Jr. 1 *l* Livingston
- Stratton, Z. O. † 1 *b* Hillside
- Strauss, I. D. 2 *l* 606 W. 114
- Strauss, P. F. *pl*
770 Eleventh ave., Steinway
- Strauss, S. W. 3 *c* 33 W. 91
- Strawman, C. M. *nm l* Livingston
- Streesman, A. E. † *p* Riverdale
- Strickland, H. A. Gardner 1 *c*
8 Bernard, Port Washington
- Strode, E. H. *ph* Livingston
- Stromose, S. † 1 *b*
335 Hoyt, Bklyn.
- Strongin, H. F. *phar*
910 Prospect ave.
- Stroock, I. S. 1 *c* 53 W. 86
- Struck, F. T. *gr ed* Livingston
- Strumwasser, S. 2 *m* 973 Fox
- Struss, M. † 1 *b*
822 Sterling Pl., Bklyn.
- Stryker, C. W. *pl* 136 W. 97
- Stuart, M. W. † *pl* 135 E. 52
- Studwell, S. A. 1 *l*
40 Woodland Dr., Greenwich
- Stumpf, B. B. † *gr ed*
53 Hawthorne ave.,
E. Orange
- Sturges, S. E. D. † 4 *b* Brooks
- Sturm, A. K. † *pl* 416 W. 122
- Sturtevant, A. H. *p* 526 W. 123
- Suchoff, L. † *pl* 254 Madison
- Suckley, A. R. L. 1 *c* 41 E. 80
- Suffern, C. † *pl* 501 W. 123
- Sullivan, A. S. † *gr ed* 59 W. 12
- Sullivan, C. W. † 4 *ed*
118 Montague, Bklyn.
- Sullivan, T. F. X. 4 *m* 601 W. 182
- Sultz, C. F. 1 *c*
188 Woodworth ave., Yonkers
- Sulzberger, S. U. 2 *c* 21 E. 67

Summerlin, O. † 2 b
121 & Amsterdam ave.
Summy, K. S. † 3 ed 509 W. 122
Surgeoner, A. M. † 1 b
14 Locust Hill ave., Yonkers
Sussman, H. A. 3 m
165 Floyd, Bklyn.
Sussman, S. A. 3 c 19 W. 114
Sutliff, E. H. 4 c
344-1, Bklyn.
Sutton, B. † ph
397 Sterling Place, Bklyn.
Suydam, J. L., Jr. 1 c
110 Grove, Tarrytown
Suzuki, K. ph 600 W. 122
Svigelsky, D. phar 46 E. 112
Svirsky, M. 3 c
288 New Lots Rd., Bklyn.
Swain, D. W. 3 l
33 Sidney Place, Bklyn.
Swain, J. C. 3 l Livingston
Swan, C. C. 3 l
407 Madison, Bklyn.
Swank, C. M. † 3 ed 420 W. 118
Swanton, A. F. 1 s
32 St. Nicholas Place
Swanton, H. P. 1 l 502 W. 113
Sweeney, H. J. P. ph
175 Ninth ave.
Sweeney, J. G. 3 c
8 N. 1, Jamaica
Sweet, M. † gr ed 415 W. 118
Sweet, M. † 3 ed
37 Cliff ave., Yonkers
Swindle, O. R 1748 B'way
Swisher, A. M. † 3 ed 501 W. 120
Swords, A. T. 2 l
1921 Davidson ave.
Sylvania, L. E. V. † ph Brooks
Sylvester, I. M. † pl
Passaic Park
Symonds, E. L. † p
770 St. Nicholas ave.
Symonds, R. 1 c Livingston
Taber, J. H. 1 c 120 Convent ave.
Taberini, E. † 1 b 170 Academy,
Long Island City
Taddonio, A. J. phar 390 Broome
Taft, B. W. † 4 ed 505 W. 121
Takahashi, T. pl 137 W. 82
Talbot, L. † 2 b Brooks
Talbot, S. J. ph 175 Ninth ave.
Taleda, M. † 3 ed
106 Commerce, Rahway
Tall, L. L. † 4 ed 435 W. 119
Tallman, G. G. † ph 3611 B'way

Tallman, L. † gr ed Whittier
Talmage, M. V. D. † 1 b Brooks
Talmage, R. W. † 4 b Brooks
Tamburrelli, H. 1 s 384 Broome
Tang, Y. pl Livingston
Tannenbaum, F. 2 l Livingston
Tanner, H. B. ph 974 Aldus
Tanzola, J. J. 3 c 162-9, Bklyn.
Tapia, A. 3 ed 164 W. 122
Taplin, E. G. p Livingston
Tapp, M. M. † ph 519 W. 121
Tappan, N. M. † 3 ed
65 Morningside ave.
Tarbox, R. D. p Yonkers
Tarshis, G. † 1 b 523-10, Bklyn.
Tartt, T. B. 1 s
215 Central ave., Leonia
Tarver, R. M. † 4 ed Whittier
Tashof, J. J. 2 c 145 E. 38
Taub, R. phar 1 E. 117
Taub, S. phar 1646 Park ave.
Tavener, E. ph 523 W. 122
Taylor, A. † 1 pa 8 W. 126
Taylor, A. S. ph
1421 University ave.
Taylor, D. W. 2 s 101 W. 88
Taylor, E. E. † 4 ed 527 W. 121
Taylor, G. E. phar 115 W. 68
Taylor, H. W. 3 m 156 E. 38
Taylor, J. L. 4 ed 108 W. 123
Taylor, J. T. ph 3100 B'way
Taylor, L. † 1 b 552 W. 186
Taylor, L. B. † 2 pa Whittier
Taylor, M. A. † 3 ed 294 W. 92
Taylor, M. E. † 3 ed 525 W. 120
Taylor, M. S. † p Leonia
Taylor, T. C. 3 s
105 S. 15th ave., Mt. Vernon
Taylor, W. D. 2 c 540 W. 113
Tea, M. A. † ph 75 W. 92
Teall, D. J. † 1 b Brooks
Teall, H. P. 1 c
189 Ashland ave., Bloomfield
Teed, I. † 4 ed 414 W. 118
Teepe, V. I. † 1 b
43 Arlington ave., Jersey City
Tell, J. J. phar 74 Columbia
Telson, D. 2 c 1317-53, Bklyn.
Temple, A. H. 1 j Livingston
Temple, J. † 3 ed Whittier
Tennedy, D. 4 s 536 W. 114
Tenoppyr, O. 3 c
2915 Glenwood Rd., Bklyn.
Terajima, T. ph 340 W. 58
Terhune, I. G. † 2 pa
802 Montgomery, Jersey City
Terriberry, N. † 3 b 120 W. 73

- Terrill, A. C. *p*
 541 Lexington ave.
 Terrill, E. W. *† 2 pa* 523 W. 120
 Terrill, H. N. *gr ed* Rahway
 Terry, L. P. 119 E. 116
 Terry, M. K. *† 1 b*
 540 Manhattan ave.
 Tessohn, I. *1 s* 810 Elton ave.
 Thacher, C. O. *2 c* Livingston
 Thaler, E. I. *phar*
 2949 W. 21, Coney Island
 Thatcher, A. S. *2 c* 523 W. 138
 Thayer, E. R. *nm fa* 540 W. 113
 Thibault, L. F. *nm s* 609 W. 115
 Thiesen, J. H. *fa* 531 W. 113
 Thiesing, T. H. *1 l* 520 W. 160
 Thom, Mrs. E. M. *† phar*
 1632 Ave. A
 Thomas, A. *† 3 ed* 519 W. 120
 Thomas, A. L. *† gr ed*
 106 Morningside Dr.
 Thomas, C. P. *3 m* 133 W. 73
 Thomas, E. M. *† 3 b* Brooks
 Thomas, E. W. *pl* 600 W. 122
 Thomas, H. C. *pl* 26 Jones
 Thomas, J. A., Jr. *3 s* 531 W. 113
 Thomas, L. E. *† ph*
 54 Morningside Dr.
 Thomas, M. D. *† 4 ed*
 175 Claremont ave.
 Thomas, M. W. *† ph* Whittier
 Thomas, R. B. *1 l*
 259 B'way, Flushing
 Thomaser, E. *gr ed*
 1525 Amsterdam ave.
 Thomasson, R. A. *† 1 pa*
 63 Morningside ave.
 Thomasson, R. M. *† ph* Whittier
 Thompson, A. A. *3 ed* 524 W. 123
 Thompson, A. E. *phar*
 78 Seventh ave., New Brighton
 Thompson, C. *† 1 b* Brooks
 Thompson, E. *† 1 b*
 448 Riverside Dr.
 Thompson, H. J. *† 1 b* 522 W. 183
 Thompson, L. H. *2 l* 430 W. 119
 Thompson, R. A. *1 s* 636 Hamilton,
 Long Island City
 Thompson, R. W. *2 c* Tuckahoe
 Thompson, W. C. *gr ed* Livingston
 Thompson, W. G. *3 c*
 56 Haven ave.
 Thomson, C. E. *3 l* Livingston
 Thornton, R. H. *ph* 503 W. 121
 Thulman, J. K. *fa*
 2493 Valentine ave.
 Thurlow, L. K., Jr. *3 l*
 152 Gates ave., Bklyn.
 Thurston, F. M. *† 3 ed* Whittier
 Thurston, H. W. *pl* 105 E. 22
 Thurston, M. W. *† 2 pa* 413 W. 46
 Tice, Mrs. S. C. *† Sp b*
 1867 Seventh ave.
 Tichborne, H. M. *1 s*
 30 S. 10th ave., Mt. Vernon
 Tichenor, C. L. *2 c* 435 W. 117
 Tidyman, W. F. *gr ed* 530 W. 122
 Tiedemann, K. L. *ph*
 175 Ninth ave.
 Tieleke, G. *† 2 b*
 710 Degraw, Bklyn.
 Tierney, M. J. *ph* 79 & B'way
 Tiffany, E. P. *† 3 ed*
 55 Church, Montclair
 Tiffany, R. G. *† 1 b*
 234 Palisade ave., Yonkers
 Tift, C. F. *2 c* 107 W. 89
 Tillion, C. V. *nm fa*
 5 Alice Court, Bklyn.
 Tillman, M. W. *† 1 pa* Whittier
 Timmermann, W. *1 s*
 104 Schaeffer, Bklyn.
 Timmons, W. J. *pl* Hartley
 Tingley, G. *† 2 pa*
 St. George's ave., Rahway
 Tingwall, E. I. *† 4 ed* Whittier
 Tinoco, A. *1 s* Furnald
 Tisdale, C. L. *† 4 ed*
 106 Morningside Dr.
 Tishman, L. *3 l*
 838 West End ave.
 Titche, C. *† 1 pa* 107 W. 82
 Titcomb, J. *1 s* Furnald
 Titlar, R. S. *3 c*
 4 Wolden Rd., Ossining
 Titus, H. J. *1 s* Furnald
 Titus, N. E. *4 m* 127 W. 11
 Titus, R. M. *† 3 ed* 267 W. 125
 Tjiattas, A. *1 s* 210 W. 55
 Tobin, E. *† 3 b*
 515 Lexington ave., Bklyn.
 Todd, J. R. *pl* Livingston
 Todd, K. W. *1 c* Dobbs Ferry
 Todd, T. M. *gr ed*
 31 S. Walnut, E. Orange
 Todd, W. H. *1 c* 565 W. 113
 Toeplitz, J. *† ph*
 275 Central Pk. W.
 Tolischus, O. D. *2 j* 528 W. 123
 Tolman, G. L. *nm c*
 233 Park Pl., Bklyn.
 Tomimas, S. *pl* 554 W. 114
 Tomlinson, D. *4 j* Hartley

Tomlinson, D. G. 2 *l* 45 W. 57
 Tompkins, E. M. † *p*
 2015 Bedford ave., Bklyn.
 Tong, L. T. *phar* 423 W. 118
 Tonjes, C. 1 *s* 768 Columbus ave.
 Tooker, M. D. † *fa* 68 W. 40
 Toomey, D. M. *phar* 322 W. 55
 Topalian, H. V. 1 *c*
 59 Columbus Ter., Weehawken
 Torr, M. J. *nm fa*
 1427 Madison ave.
 Totten, I. † 3 *b*
 52 Morningside ave.
 Touse, A. B. † 3 *ed* Whittier
 Toussaint, E. R. † 3 *pa*
 2966 Briggs ave.
 Tove, H. B. *nm j*
 67 Lexington ave., S. Norwalk, Ct.
 Tovey, I. M. † *gr ed* 417 W. 120
 Towes, A. *gr ed* 524 W. 123
 Towl, S. D. † 4 *pa* Whittier
 Towns, E. B. 1 *c* 101 W. 80
 Townsend, A. W. 1 *c*
 117 Wadsworth ave.
 Townsend, C. P. † 2 *pa* Whittier
 Townsend, L. M. 1 *c* Hartley
 Townsend, S. M. *ph*
 54 Clinton ave., W. Hoboken
 Townsend, W. E. † 4 *ed* 155 E. 37
 Trabue, M. R. *gr ed* 425 W. 124
 Tracey, W. W. 2 *m* 333 W. 58
 Track, I. P. † 4 *b*
 76 McDonough, Bklyn.
 Tracy, G. 2 *m* 316 W. 58
 Tracy, H. R. † 4 *ed* 505 W. 121
 Trainer, C. R. 3 *c* 558 W. 113
 Trainor, J. *phar*
 128 Bay, Peekskill
 Traub, A. J. A. *phar* Elizabeth
 Traugott, M. E. † *p*
 2100 Valentine ave.
 Trausil, O. J. 3 *c* 620 W. 116
 Tredwell, H. † 3 *ed* 431 W. 121
 Trench, A. H. † 4 *ed*
 110 Holly, Cranford
 Trimble, H. B. *pl* 600 W. 122
 Trimble, P. † 3 *ed* Whittier
 Trimble, R. J. 3 *l* 420 W. 119
 Trischett, S. S. 2 *c*
 956 Teller ave.
 Trotta, R. *phar* 27 Barrow
 Trottier, T. *ph* 501 W. 122
 Troutman, R. B. 3 *l* Livingston
 Trowbridge, K. P. † 2 *b*
 165 Audubon ave.
 Troy, J. J. *phar* 322 W. 55
 Truax, R. H. *ph* 23 W. 73

Trubek, L. 1 *s*
 Hackensack, Carlstadt
 Trueman, G. J. *gr ed* 420 W. 119
 Truland, H. E. † 3 *pa* 311 W. 95
 Trumball, B. E. † 4 *ed* 242 E. 50
 Trumbull, G. L. 1 *l* 522 W. 123
 Tsai, M. C. 1 *c* Hartley
 Tsu, P. T. *pl* 175 Ninth ave.
 Tucker, D. S. *pl* 26 Jones
 Tucker, F. L., Jr. 1 *c*
 464-9, Bklyn.
 Tucker, G. 1 *s* Great Neck Sta.
 Tucker, I. S. *ph* 234 E. 11
 Tucker, M. L. D. † 4 *ed* Whittier
 Tucker, R. L. 1870 Cruger ave.
 Tuggler, C. † *ph* 519 W. 121
 Tully, J. H. *ed* 314 W. 17
 Tully, M. † 4 *ed*
 185 St. Marks ave., Bklyn.
 Tunis, R. *nm l* 519 W. 121
 Turek, H. T. 2 *c* 1379 Ave. A
 Turets, D. 2 *c* Hartley
 Turitz, F. † *nm fa*
 1028-40, Bklyn.
 Turnbull, A. G. † *pl* 510 W. 124
 Turner, C. C., Jr. 2 *l* 606 W. 113
 Tuthill, † *nm b*
 87 Lafayette ave., Bklyn.
 Tuttle, H. L. † 2 *pa* 501 W. 120
 Tuttle, M. R. † 1 *b*
 1680 Woodhaven ave.,
 Woodhaven
 Tuttle, W. N. *ph* 600 W. 122
 Twersky, M. *phar*
 423 Barbey, Bklyn.
 Twiss, G. R. *gr ed* Fernald
 Twombly, E. B. 3 *l* 404 W. 116
 Tyler, H. G. † *p*
 79 Lefferts Pl., Bklyn.
 Tyson, L. *pl* Livingston
 Uhl, M. R. † *nm pa* 527 W. 121
 Ulrich, F. *pl* 600 W. 122
 Umaceny, L. A. † *p* 205 E. 73
 Underhill, E. M. 4 *c* 703 W. 178
 Underwood, H. A. † 2 *pa* Whittier
 Ungarleider, M. E. 4 *s*
 545 Marcy ave., Bklyn.
 Unger, J. † 4 *b* 73 E. 90
 Unger, J. J. 3 *m* 40 W. 128
 Ungerer, H. W. 3 *l*
 175 Claremont ave.
 Unterman, W. *phar* 122 E. 113
 Untermyer, E. M. 2 *l*
 970 Park ave.
 Updike, G. E. 2 *c* 565 W. 113

- Upton, H. † 4 *ed*
 77 Sedgwick, Bridgeport
 Upton, L. † *nm b* Brooks
 Upton, S. M. *gr ed* 500 W. 121
 Uzzell, T. H. *ph* Hartley
- Vail, E. † 4 *ed* 17 W. 124
 Vail, E. L. 4 *j* 29 Waverly Pl.
 Vail, J. I. B. 1 *m* 350 W. 58
 Valance, W. R. *nm l* Livingston
 Valderrama, M. A. 1 *s* Hartley
 Valensi, A. 3 *m* 243 E. 18
 Valentine, H. 2 *c* 210 Riverside Dr.
 Valentine, K. S. 4 *c* Hartley
 Valvano, J. A. *phar* 2059 First ave.
 Valverde, R. 1 *s* 162 W. 73
 Van Aken, V. A. † 3 *pa* Whittier
 Van Alstyne, W. 4 *c* 112 Riverside Dr.
 Van Auken, A. L. † 1 *b* 132 Elm, Elizabeth
 Van Buren, M. P. 4 *c* Hartley
 Van Buskirk, E. F. *nm m* 180 McDonald, Bklyn.
 Van Derwerker, E. E. 1 *m* 459 W. 24
 Van de Water, F. F., Jr. 4 *j* 2626 B'way
 Van de Water, S. H. 1 *c* 2626 B'way
 van Duyn, E. † 1 *b* 612 W. 135
 Van Duyn, M. † 4 *ed* 612 W. 135
 Van Gaasbeek, H. C. 3 *c* 325 W. 57
 Van Name, C. S. *fa* 228 Barclay, Flushing
 Van Ness, C. C. 1 *c* 121 Mt. Pleasant ave., Newark
 Van Oot, B. H. *gr ed* Furnald
 van Raalte, J. † 4 *b* 10 W. 87
 Van Sant, J. T. *gr ed* 609 W. 127
 Van Schaick, L. W. *gr ed* Scarsdale
- Van Sicler, P. † 1 *pa* 55 Bergen ave., Jamaica
 Vanuxen, L. † 3 *ed* 16 Gouverneur, Newark
 Van Vliet, A. E. † 4 *ed* Whittier
 Van Volkenburgh, D. E. 1 *j* Furnald
 Van Voorhis, A. J. *phar* Highland Falls
 Van Vort, R. V. † 4 *ed* 501 W. 121
 Van Waggenen, Mrs. M. A. † *ed* 605 W. 111
- Van Waggenen, M. J. *gr ed* 605 W. 111
 Van Wagner, E. H. † 1 *b* Grantwood
- Vaughan, G. W. 1 *s* 48 S. 9th ave., Mt. Vernon
 Vaughan, J. A. 2 *l* Furnald
 Vaughan, W. S. 1 *s* 146 E. 5th ave., Roselle
 Veazie, W. B. 4 *c* 522 W. 123
 Veeder, L. B. *pl* Peekskill
 Velebir, A., Jr. *nm l* Livingston
 Venetucci, J. *phar* 2310 Belmont ave.
 Vermilye, H. N. 4 *m* 350 W. 58
 Vernon, J. B. *pl* Livingston
 Ver Nooy, H. † 1 *pa* Whittier
 Vertrees, J. H. *pl* 600 W. 122
 Vessa, M. C. 3 *c* 140 Skillman ave., Bklyn.
- Vevia, A. C. † 4 *ed* Whittier
 Vigeron, M. H. *ph* 70 W. 95
 Vincent, L. M. 2 *m* Livingston
 Virden, G. D. *phar* 549 W. 144
 Viscardi, F. P. *phar* 131 W. 61
 Vitale, N. J. *phar* 330 W. 117
 Vogt, T. † *nm b* 214 E. 31, Bklyn.
 Voight, W. W. *ph* 600 W. 122
 Volavic, G. O. 4 *m* 414 W. 121
 Volimer, D. W. 2 *s* 614 W. 113
 Vollenweider, J. A. *pl* 186 Ellen, Yonkers
 vom Saal, R. E. 2 *c* 536 W. 114
 von Bernuth, A. F. 1 *c* Hartley
 von Deesten, A. P. 3 *s* 80 Foxall, Queens
- Vonder An, M. † *ed* 191 Claremont ave.
 Von Emburgh, G. H. 1 *c* Arlington, N. J.
- von Goeben, C. A., Jr. 1 *c* 37 Gates ave., Montclair
 von Heimbürg, F. 2 *s* 515 W. 147
 von Helmolt, C., Jr. *nm l* The Belnord
- von Hofe, F. H. 1 *m* 176 N. Centre, Orange
 von Jahinski, E. R. *ph* 2408 Webb ave.
 von Sothen, C. E. H. 3 *s* 616 W. 113
 von Voightlander, M. C. L. † 4 *ed* Whittier
- von Wedel, H. O. *nm m* Livingston ave., Dobbs Ferry

Voorhees, T. S. 2 l 429 W. 117
 Voorhies, J. 3 j 536 W. 114
 Voorhies, J. 4 c 2566 Ocean ave., Bklyn.
 Vorhaus, A. R. † 4 b 160 E. 80
 VosBurgh, L. † 3 ed Whittier
 Vosburgh, M. H. † 1 pa Whittier
 Voyse, M. † ph 409 Palisade ave., Yonkers
 Vredenburgh, E. H. 3 l 44 W. 77
 Vreeland, H., Jr. 1 l 78 Summit ave., Jersey City
 Vroome, M. A. † 3 ed 271 Richmond ave.,
 Port Richmond
 Wack, W. H. 2 l 2175 Eighth ave.
 Waddington, M. † ph 1 Lexington ave.
 Wadelton, W. S. fa White Plains
 Wagner, F. C. 4 c 600 W. 122
 Wagner, R. J. phar Y. M. C. A., 23
 Wainwright, S., Jr. 2 l Rye
 Waite, C. A. † gr ed 501 W. 120
 Wakeley, W. E. 3 m 420 Main, Orange
 Walker, B. L. † 2 pa Whittier
 Walker, J. A. † p Whittier
 Walker, L. † 3 b 220 W. 129
 Walker, L. E. † 3 ed Whittier
 Walker, M. B. † gr ed 411 W. 114
 Walker, M. E. † 4 b Brooks
 Walker, M. R. 1 l 924 West End ave.
 Walker, W. F. 2 s 414 Riverside Dr.
 Wallace, E. N. † 2 b 411 W. 114
 Wallace, F. L. 1 l Furnald
 Wallace, M. † 2 pa 114 Park, Montclair
 Wallach, B. E. phar 57 E. 111
 Wallach, E. † 2 b 95 W. 119
 Wallach, J. C. 1 s 736 E. 5
 Waller, A. P. N. † 3 b 100 Morningside Dr.
 Walls, E. E. † 4 ed 70 Morningside Dr.
 Walser, K. E. 1 l Livingston
 Walser, T. D. pl 600 W. 122
 Walsh, H. V. fa 602 S. B'way, Yonkers
 Walsh, M. 1 s 332 Tompkins ave., New Brighton
 Walter, M. 1 s 145 W. 92

Walters, E. M. † 3 ed 540 W. 122
 Walther, C. M. † gr ed 201 N. High, Mt. Vernon
 Walther, F. H. † 3 ed 1969 Seventh ave.
 Walther, H. E. † 1 b 201 N. High, Mt. Vernon
 Walton, J. B. pl 66 Ellenton ave., New Rochelle
 Walton, L. S. † 4 b 855 Gates ave., Bklyn.
 Wanderman, S. phar 125 E. 11
 Wang, C. F. p Hartley
 Wang, C. H. p Livingston
 Wang, Y. T. p Hartley
 Wangshai, C. pl Hartley
 Wanike, W. C. fa 401 W. 117
 Wanner, D. E. † ed 130 Claremont ave.
 Ward, C. E. phar 115 W. 68
 Ward, E. H. † gr ed 419 W. 119
 Ward, G. F. † pl 515 W. 122
 Ward, I. † 3 ed Whittier
 Ward, J. P. 2 l 8 W. 127
 Ward, N. B. 4 s 429 W. 117
 Ward, M. H. † pl 135 E. 52
 Ware, B. R. nm s 503 W. 111
 Ware, C. C. † p Whittier
 Ware, E. E. † pl Brooks
 Ware, E. R. 1 m 121 W. 93
 Warfield, W. 1 l Furnald
 Warfman, S. phar 115 W. 68
 Warner, D. D. 1 c 404 W. 115
 Warner, L. M. 3 ed 269 W. 122
 Warren, Mrs. C. C. † nm b 133 Library Pl., Princeton
 Warren, F. M. † 4 ed 527 W. 121
 Warshow, J. 1 c 283 Montauk ave., Bklyn.
 Warwick, V. A. † ph 254 Vanderbilt ave., Bklyn.
 Washburn, M. L. † gr ed 360 W. 123
 Washburn, N. † 3 b 543 W. 123
 Washburn, R. † 2 b 388 Irving ave., Port Chester
 Washburne, G. A. pl 1161 Amsterdam ave.
 Wasserman, E. P. † 3 b 111 W. 88
 Wasserman, R. † 2 b 231 E. 68
 Wassermann, J. A. 1 l 33 W. 56
 Wasteneys, H. p 540 Manhattan ave.
 Waters, W. O., Jr. 4 j 430 W. 119
 Watkins, F. V. † 4 ed 511 W. 127
 Watkins, M. † 1 b 41 E. 52

- Watkins, W. K. 4 c 608 W. 113
 Watson, A. E. † ph 825 W. 180
 Watson, C. M. 2 s
 731 Madison, W. New York
 Watson, F. D. ph 825 W. 180
 Watson, T. H., Jr. 3 l 258 W. 93
 Watt, J. gr ed
 Union Theological Seminary
 Watt, R. W. 1 c 540 W. 113
 Watters, H. D. gr ed 525 W. 120
 Way, A. M. † 3 pa
 1183 Woody Crest ave.
 Way, E. M. † 4 ed 503 W. 121
 Way, M. † 3 ed
 374 Vanderbilt ave., Bklyn.
 Waycott, F. H., Jr. fa Hartley
 Wear, J. † 3 ed 523 W. 121
 Weathers, B. A., Jr. 1 l
 419 W. 119
 Weaver, E. W. 2 s
 25 Jefferson ave., Bklyn.
 Weaver, J. H. 2 c
 25 Jefferson ave., Bklyn.
 Weaver, E. † 1 pa Whittier
 Weaver, J. S. † 1 pa Whittier
 Webb, G. R. 4 c Hartley
 Webb, T. H. 2 s
 450 Riverside Dr.
 Webber, A. J. † 3 b 61 E. 86
 Weber, E. M. † 3 ed
 Laburnum ave., Flushing
 Weber, J. W. 1 m 437 W. 59
 Webster, J. C. 2 j Hartley
 Webster, J. C. 3 s Livingston
 Webster, S. E. † 3 ed 434 W. 120
 Wechsler, A. L. 1 c
 895 West End ave.
 Wechsler, P. D. ph 460 Grand
 Weed, B. E. † 4 ed 117 W. 120
 Weed, L. A. 2 c
 171 Berkeley Pl., Bklyn.
 Weeks, E. T. † pl
 154 Second ave.,
 Long Island City
 Weeks, L. L. gr ed 419 W. 119
 Weeks, W. C. fa 633 W. 115
 Wegener, J. U. 1 s 546 W. 113
 Wei, W. P. pl
 1161 Amsterdam ave.
 Weil, F. L. 3 c 57 W. 87
 Weil, M. † 2 b
 1362 Pacific, Bklyn.
 Weiler, E. W. 1 c 552 W. 114
 Wein, S. A. † 3 ed 160 W. 99
 Weinberg, F. J. C. 1 c 47 E. 75
 Weiner, M. p
 413 New Jersey ave., Bklyn.
- Weinhandler, M. 1 c
 9659-21 ave., Bklyn.
 Weinland, H. M. † ph
 419 W. 118
 Weinreb, C. phar 43 W. 112
 Weinschenker, I. phar 129 E. 102
 Weinstein, A. phar
 1325 Fifth ave.
 Weinstein, A. p
 968 St. Nicholas ave.
 Weinstein, A. A. 4 ed
 162 E. 4
 Weinstein, D. † 4 ed
 968 St. Nicholas ave.
 Weinstein, F. † 1 b
 968 St. Nicholas ave.
 Weinstein, S. † 2 b 17 W. 120
 Weintraub, S. 2 c
 1054 Third ave.
 Weis, W. M. 3 l 133 E. 74
 Weisbach, M. † 2 pa 512 W. 123
 Weiser, S. ph 1378 Webster ave.
 Weiskotten, H. T. 4 c
 96 Hewes, Bklyn.
 Weiss, A. A. 4 m 588 Park ave.
 Weiss, C. T. † 2 b
 180 & Riverside Dr.
 Weiss, F. phar 335 E. 77
 Weissenborn, H. C. 2 c
 595 Wythe ave., Bklyn.
 Weitzenkorn, L. M. 2 j
 416 Riverside Dr.
 Weitzman, H. D. 1 c 303 W. 120
 Weld, F. M. † 4 ed Whittier
 Welding, J. R. 1 c
 79 Waller ave., White Plains
 Weldon, B. † 3 b
 1 Lincoln, New Rochelle
 Wellenkamp, J. H. ph
 87 State, Bklyn.
 Weller, M. † ed 433 W. 120
 Welles, J. B. gr ed 501 W. 121
 Welles, L. M. † 3 ed 523 W. 121
 Welling, J. B. † 1 pa Whittier
 Welling, L. H. 3 s 60 E. 53
 Wellman, H. G. pl 522 W. 123
 Wellman, K. I. † 1 pa Whittier
 Wells, B. B. † pl 509 W. 121
 Wells, C. A. † 3 b
 406 S. Third ave., Mt. Vernon
 Wells, E. F. † 3 pa
 10 Morningside Dr.
 Wells, L. † 3 ed 50 W. 121
 Wells, M. † 2 b 54 W. 94
 Wells, M. E. † gr ed
 130 Claremont ave.

Wells, O. I. $\dagger 4 b$
 406 S. Third ave., Mt. Vernon
 Welsh, C. I. $\dagger 3 ed$ 527 W. 121
 Welsh, F. DeS. 3 s 565 W. 113
 Welton, W. F. 1 c 429 W. 117
 Welzmler, B. W. $\dagger gr ed$
 1353 Bryant ave.
 Wen, C. 1 s Furnald
 Wend, M. G. *ph* Furnald
 Wendover, S. H. 2 j Hartley
 Wengle, W. *phar* 36 W. 93
 Wensley, R. L. 2 s
 275 Jefferson ave., Bklyn.
 Went, E. K. $\dagger 2 pa$ Whittier
 Wernstedt, E. M. A. $\dagger 1 b$
 420 W. 121
 Wertheimer, J. S. 1 c 229 W. 97
 Werts, S. E. $\dagger 3 ed$ Whittier
 Wessa, I. $\dagger ph$ 527 W. 121
 Wessner, A. E. $\dagger 3 ed$ Whittier
 West, J. E. 3 l Livingston
 West, L. F. 3 *ed* 384 Jay, Bklyn.
 West, R. 1 m 346 W. 57
 West, S. F. $\dagger 4 ed$ 435 W. 119
 West, W. L. 3 c
 849 St. Nicholas ave.
 Westerfield, W. H. 4 c
 S. Willington
 Westermann, J. J., Jr. 1 m
 630 W. 139
 Westfall, M. $\dagger 3 ed$ 631 W. 114
 Weston, A. J. *ph*
 160 N. 18, E. Orange
 Wetstein, J. *fa* 125 E. 82
 Weyant, J. A. 3 s Livingston
 Wezel, E. $\dagger 1 b$
 58 Vandervere ave., Woodhaven
 Whang, P. M. *pl* Furnald
 Wheat, F. N. *gr ed*
 2456 Bedford ave., Bklyn.
 Wheeler, C. M. $\dagger 4 ed$ 525 W. 120
 Wheeler, I. *pl* Hartley
 Wheeler, R. $\dagger 1 b$
 1003 Woody Crest ave.
 Wheeler, W. F. 1 l Furnald
 Wheelock, R. L. *phar* 115 W. 68
 Whelan, F. R. 4 c
 153 Stuyvesant ave., Bklyn.
 Whitaker, E. $\dagger 4 ed$ 503 W. 121
 White, A. E. *gr ed*
 74 Diamond, Bklyn.
 White, A. K. *nm c*
 229 Duffield, Bklyn.
 White, B. T. $\dagger 1 b$ 421 W. 118
 White, E. G. $\dagger p$ 430 W. 118
 White, C. R. 3 l Livingston

White, E. S. $\dagger 2 pa$
 1125 Madison ave.
 White, E. W. 4 m Hartley
 White, F. C. *pl* 1018 E. 153
 White, G. M. C. $\dagger 4 ed$ Whittier
 White, H. D. *gr ed*
 7 Liberty, Ridgewood
 White, L. $\dagger 4 ed$
 261 Steuben, Bklyn.
 White, M. R. $\dagger p$ 18 W. 69
 White, P. J., Jr. 1 m 351 W. 57
 White, R. B. $\dagger pl$ 509 W. 118
 White, S. P. $\dagger ph$ 414 W. 118
 White, S. S. *ph* Madison
 White, W. 3 s 531 W. 113
 White, W. J. *gr ed*
 36 Morse Pl., Englewood
 Whitecotton, J. B. $\dagger nm b$
 620 W. 115
 Whiteford, M. $\dagger 4 ed$ 435 W. 119
 Whitelaw, W. M. *pl* 600 W. 122
 Whitley, H. S. 2 l
 217 Grand ave., Leonia
 Whitman, A. $\dagger 3 ed$ 411 W. 114
 Whitney, A. L. $\dagger 3 ed$ Whittier
 Whitney, F. F. *ph*
 21 Highland ave., Rutherford
 Whitney, L. I. $\dagger gr ed$ 439 W. 123
 Whitney, M. $\dagger ph$ Whittier
 Whitmore, R. E. 2 j Furnald
 Whittaker, B. E. *gr ed* 433 W. 124
 Whittingham, E. R. 2 l Milburn
 Whyte, M. T. $\dagger 1 b$ Brooks
 Wibberley, E. M. $\dagger 4 ed$
 260 E. 94
 Wickenden, Y. A. $\dagger 3 pa$ Whittier
 Wickersham, L. M. 1 j Hartley
 Widder, J. A. 2 s
 141 N. 8th ave., Mt. Vernon
 Widoff, P. *phar* 602 E. 138
 Wiechmann, W. G. 2 l 39 W. 38
 Wiener, J. H. *phar*
 Rockaway Pk.
 Wiener, J. J. 2 m
 1724 Madison ave.
 Wiener, M. G. 1 c Hartley
 Wiener, N. *phar*
 16 Harrison ave., Bklyn.
 Wiener, T. M. $\dagger 4 ed$
 62 1/2 Nelson Pl., Newark
 Wiest, E. *pl* 500 W. 122
 Wiggins, I. L. $\dagger ph$
 8 Baldwin ave., Jersey City
 Wightman, H. J. $\dagger ed$ 525 W. 120
 Wikander, E. A. *fa*
 58 Morningside ave.
 Wikander, H. A. $\dagger 3 ed$ Whittier

Wirtenberg, H. *phar*
138 Fourth ave.
Wirth, C. A. *p* 2063 Maple ave.
Wischhusen, M. *† 1 b*
2309 Westchester ave.
Wise, L. J. *nm l* Elks' Club
Wise, R. L. *2 c* Hartley
Wise, R. M. *† 4 b*
472 West End ave.
Wishaar, W. P. *nm s* Furnald
Wishnieff, H. V. *† 1 b*
9 Columbus ave.
Withers, H. E. *† ph* 417 W. 120
Withers, M. *† pl* 135 E. 52
Witzell, P. J. *2 s* 618 W. 113
Wobber, F. *† 1 b* 435 W. 123
Wodicka, Mrs. F. V. *phar*
72 East End ave.
Wohlgemuth, M. W. *3 s*
261 Kingston ave., Bklyn.
Woitz, E. *† 1 b* 250 W. 94
Wolcott, M. E. *† 2 pa* 508 W. 122
Wolf, M. *pl* 524 W. 123
Wolfs, F. R. *2 l* Livingston
Wolff, D. S. *† pl* 12 E. 70
Wolff, J. *1 m*
562-7, Bklyn.
Wolff, M. S. *2 c* 880 W. 180
Wolfson, A. *1 s* 47 Essex
Wolfson, D. L. *† ed* 322 W. 87
Wolinsky, P. *2 l*
224-13, College Point
Wong, M. *gr ed* Furnald
Wong, W. A. *4 s* Livingston
Wood, A. H. *3 c* 537 W. 123
Wood, E. *† ed* 504 W. 112
Wood, E. *gr ed* 417 W. 120
Wood, F. A. *2 c*
948 Lexington ave.
Wood, F. E. *nm s*
18 W. Pierrepont ave.,
Rutherford
Wood, H. *† gr ed* Whittier
Wood, J. A. *ph*
894 E. 35, Bklyn.
Wood, J. S. *nm l* Livingston
Wood, M. *† 4 ed* 527 W. 121
Wood, M. M. *† ph* 505 W. 124
Wood, N. F. *† 2 b*
Englewood ave., Englewood
Wood, P. M. *2 c*
894 E. 35, Bklyn.
Wood, R. U. *4 s* 429 W. 117
Woodbury, D. O. *† 1 pa*
433 W. 134
Woodbury, W. B. *ph* Livingston

Woodhouse, C. D. *2 l*
635 Park ave.
Woodhull, M. *† gr ed* 541 W. 123
Woodruff, M. *† pl*
344 Gregory ave., Passaic
Woodruff, W. H. *3 c* Green Village
Woods, H. D. *pl* Livingston
Woodward, E. Van A. *† ed* Whittier
Woodwell, C. S. *3 s* 522 W. 123
Woodworth, S. E. *4 s* Livingston
Wooley, M. R. *† 4 ed*
106 Morningside Dr.
Woolfolk, R. B. *3 s* Furnald
Woollcott, A. H. *pl* Phalanx
Work, J. C. *4 s* Oyster Bay
Workman, A. J. *† 3 ed*
168 Willoughby ave., Bklyn.
Wormser, F. E. *2 s* 100 W. 91
Wormser, R. A. *1 c* 100 W. 91
Wortmann, C. J. *† 2 pa*
469 Waverly ave., Bklyn.
Wright, C. D. *† 3 ed* 105 W. 88
Wright, E. *† gr ed* 503 W. 121
Wright, F. S. *3 s* 618 W. 113
Wright, M. A. *† 4 ed* 506 W. 122
Wright, S. A. *pl* 600 W. 122
Wright, W. R. *p* Livingston
Wright, W. S. *nm c* 21 Convent ave.
Wu, C. K. *p* Hartley
Wu, S. J. *phar* 115 W. 68
Wu, Y. *† 3 ed* Whittier
Wucherer, W. F. C. *4 ed*
652 E. 149
Wülfing, F. W. *3 c*
659 Metropolitan ave., Bklyn.
Wunderlich, E. P. *† gr ed* Tarrytown
Wurgburger, E. *† 1 pa* 342 W. 88
Wurm, C. *1 m* 606 E. 164
Wurster, W. F. *4 s*
327 Lenox ave.
Wurzbach, F. A. *1 c* 381 E. 165
Wyckoff, M. *† 2 b*
43 Lincoln, Glen Ridge
Wyland, F. E. *† 4 ed* 420 W. 121
Yablick, M. *4 s*
472 Bergen, Newark
Yampolsky, J. *1 m* 886 Kelly
Yanagisawa, T. *pl*
440 Riverside Dr.
Yang, K. E. *pl*
106 Riverside Dr.
Yates, E. *† gr ed*
Box C, Mt. Hope

- Yates, J. A. 3 *l* 425 W. 114
 Yee, C. T. *phar* 423 W. 118
 Yeomans, L. E. † 3 *ed* 192 Prospect, E. Orange
 Yerkes, H. A., Jr. 1 *c* 109-4, Elmhurst
 Yokelson, S. C. 1 *s* 58 Sumner ave., Bklyn.
 Yonge, M. J. † 2 *pa* Whittier
 Young, A. G. *phar* 5 Mt. Morris Park W.
 Young, A. L. † *gr ed* 527 W. 121
 Young, D. B. *p* Hartley
 Young, E. I. R. † 3 *ed* 523 W. 122
 Young, E. M. † *ph* 191 Claremont ave.
 Young, E. V. † *ph* 2717 Creston ave.
 Young, H. A. † 3 *ed* 191 Claremont ave.
 Young, J. J., Jr. 3 *m* 149 Bedford ave., Bklyn.
 Young, J. W. 3 *l* 423 W. 118
 Young, R. † 2 *b* Brooks
 Young, R. E. † 3 *pa* 515 W. 124
 Young, R. H. 4 *m* 417 W. 52
 Young, R. W., Jr., 3 *l* Hartley
 Young, W. H. *pl* 600 W. 122
 Young, W. H. *pl* 600 W. 122
 Young, W. R. † *pl* 135 W. 52
 Younger, D. H. 3 *l* 139 S. Orange ave., Newark
 Youngs, H. C. † 1 *b* 600 W. 115
 Yracchia, deM. O. R. *ed* 519 W. 121
 Yungerman, H. 1 *pa* 127 Ludlow
 Zabriskie, C. L. 1 *s* 37 W. 75
 Zagat, H. † 3 *b* 184 Claremont ave.
 Zagat, L. † *gr ed* 973 Summit ave.
 Zahn, G. W. 2 *c* 633 W. 115
 Zamkin, H. O. 2 *m* 123 E. 101
 Zavidovich, M. M. 3 *s* 294 Georgia ave., Bklyn.
 Zeiger, S. 1 *c* 157 Van Buren, Bklyn.
 Zeitlin, R. † *ph* 1346 Lyman Pl.
 Zeman, D. † 1 *pa* 17 Spencer Pl., Bklyn.
 Zeman, F. D. 1 *m* 17 Spencer Pl., Bklyn.
 Zenker, O. † *ph* 351 E. 84
 Zent, E. G., Jr. 1 *c* Hartley
 Zeroff, M. H. *phar* 1450 Madison ave.
 Zeydel, E. H. 4 *c* 416 Westminster Rd., Bklyn.
 Zia, Z. C. 4 *s* Hartley
 Zibulsky, W. *phar* 363 S. 5, Bklyn.
 Zimmer, D. B. 2 *c* 111 W. 120
 Zimmer, S. H. 4 *s* 601 E. 170
 Zinn, M. L. 1 *s* 138 W. 117
 Zins, M. 2 *s* 133 W. 113
 Zion, L. 3 *m* 783 Beck
 Ziperowitz, A. *phar* 1580 Eastern Parkway, Bklyn.
 Zoellner, H. W. 1 *c* Hartley
 Zografi, E. *phar* 251 W. 35
 Zoller, C., Jr. 1 *l* 349 W. 87
 Zoller, H. P. *fa* 556 W. 150
 Zolotkoff, J. † *ph* 1956 Crotona Parkway
 Zucker, L. W. *phar* 126 Washington, Hoboken
 Zuckerman, S. 2 *s* 281 Division ave., Bklyn.
 Zuege, H. W. 1 *s* 958 Steinway ave., L. I. City
 Zumwalt, D. † 3 *ed* 524 W. 119
 Zvirin, E. 4 *c* Larchmont

SUMMARY

OFFICERS

Professors (not including 4 administrative officers of professorial rank).....	180
Associate Professors.....	42
Assistant Professors.....	95
Clinical Professors.....	19
Associates.....	40
Instructors.....	162
Curators.....	3
Lecturers and other Special Officers of Instruction.....	28
Assistants.....	70
Clinical Assistants.....	99
<hr/>	
UNIVERSITY OFFICERS OF INSTRUCTION.....	738
OTHER INSTRUCTORS IN TEACHERS COLLEGE.....	104
OTHER INSTRUCTORS IN COLLEGE OF PHARMACY.....	7
<hr/>	
	849
UNIVERSITY OFFICERS OF ADMINISTRATION.....	34
OTHER OFFICERS OF ADMINISTRATION, TEACHERS COLLEGE AND COLLEGE OF PHARMACY.....	9
<hr/>	
	43
EMERITUS OFFICERS.....	15
<hr/>	
TOTAL.....	907
HORACE MANN SCHOOL and SPEYER SCHOOL (<i>not included above</i>).....	92

STUDENTS

COLUMBIA COLLEGE:	
Fourth-year class.....	135
Third-year ".....	147
Second-year ".....	211
First-year ".....	325
Non-matriculated.....	23
<hr/>	
	841
The School of LAW:	
Third-year class.....	128
Second-year ".....	145
First-year ".....	135
Non-matriculated.....	42
<hr/>	
	450
Carried forward.....	1291

Brought forward.....	1291
The School of MEDICINE:	
Fourth-year class.....	72
Third-year ".....	88
Second-year ".....	59
First-year ".....	90
Non-matriculated.....	32
	— 341
The Schools of MINES, ENGINEERING, AND CHEMISTRY:	
Fourth-year class.....	132
Third-year ".....	141
Second-year ".....	150
First-year ".....	207
Non-matriculated.....	35
	— 665
FINE ARTS:	
Architecture.....	143
Music.....	16
	— 159
The School of JOURNALISM:	
Fourth-year class.....	30
Third-year ".....	16
Second-year ".....	20
First-year ".....	27
Non-matriculated.....	13
	— 106
The Graduate Faculties of POLITICAL SCIENCE, PHILOSOPHY, and PURE SCIENCE.....	1496
	—
TOTAL.....	4058
BARNARD COLLEGE.....	623
TEACHERS COLLEGE:	
School of Education.....	1345
School of Practical Arts.....	325
COLLEGE OF PHARMACY.....	441
	—
TOTAL.....	6792
Deduct Double Registration.....	389
	—
NET TOTAL OF RESIDENT STUDENTS.....	6403
Summer Session Students, 1913.....	4539
Deduct Double Registration.....	1013
	— 3526
	—
GRAND TOTAL OF RESIDENT STUDENTS.....	9929
Students in Extension Courses (including 344 duplicates).....	2492
Students in Special Classes at Teachers College.....	1152

INDEX

- Abram Dubois Fellowship, 438
 Absences, Regulations on, 46n, 198, 249, 250, 323
 Academic Calendar, 481-84
 Academic Credit, 61
 Academy of Design, *see* National Academy of Design
 Academy of Medicine, Library, 152
 Academy of Political Science, 124
 Adams Precision Laboratory, 157
 Adams Research Fellowship, 436; Awards, 456
 Administration, Officers of, 5-8, 42
 Educational, Courses in, 97
 Hospital, Courses in, 141
 Institutional, Courses in, 124
 Administrative Board of Extension Teaching, 7
 Administrative Board of School of Journalism, 7
 Administrative Board of Summer Session, 7
 Administrative Board on Instruction and Research in Agriculture, 7
 Administrative Law, Courses in, 127-28
 Admission, 43, 46, 50, 173-85
 Barnard College, 173, 174, 176-77, 340-42
 College of Pharmacy, 396
 College of Physicians and Surgeons, 173, 197, 235-36
 Columbia College, 173-74, 176, 193
 Extension Teaching, 413
 School of Architecture, 173, 197, 322
 School of Fine Arts, 173, 322
 School of Journalism, 173
 School of Law, 173, 197, 216
 School of Music, 173, 197, 327
 Schools of Mines, Engineering, and Chemistry, 173, 176, 196, 248, 249
 Admission as non-matriculated students, 193
 Admission to special courses, 193, 249
 Advanced courses of study, 43-45
 Advanced standing, Admission to, 51, 173, 193
 Barnard College, 341
 College of Physicians and Surgeons, 235-36
 Columbia College, 193
 School of Fine Arts, 322
 School of Journalism, 333
 School of Law, 216-17
 School of Mines, Engineering, and Chemistry, 248-49
 Advanced Students in Metallurgy, 135
 Advice to students, 198
 Advisory Committee on Art, 8
 Age required for matriculation, 173
 Agriculture, Administrative Board on Instruction and Research in, 7; Courses in, 61, 412
 Aldrich Scholarship, 442
 Alliance Française, Co-operation with the, 167
 Alliance with the Presbyterian Hospital, 231-32
 Alonzo Clark Scholarship, 444
 AGRICULTURE, DEPARTMENT OF, 61; Courses, 61
 Alumni and Student publications, 476-78
 Alumni Association of the College of Physicians and Surgeons, Fellowships, 436-37; Prizes, 448
 Alumni Association Prizes, 448; Awards, 461
 Alumni Association Scholarships, 442; Awards, 459
 Alumni Competitive Scholarships, 442; Awards, 460
 Alumni Council, 472
 Alumni, General Catalogue, 478
 Alumni Organizations, 472-75
 Alumni publications, 476-78
 Alumni Trustees, 36, 472
 American Archaeology and Ethnology Fellowship, 437
 American Mathematical Society Library, 55
 American Museum of Natural History, 53, 56, 64
 Course at, 170
 Analytical Laboratory, 134
 Analytical Metallurgy, 135
 ANATOMY, DEPARTMENT OF, 45, 62-63
 Courses, 62; Equipment, 63; Laboratories, 63; Museum, 63; Officers of Instruction, 62; Research, 63; Study, 234
 ANCIENT AND ORIENTAL LANGUAGES AND LITERATURES, DIVISION OF, 45, 82-86, 141-44
 Announcement of Columbia College, 193, 198
 Announcement of the College of Physicians and Surgeons, 233, 238
 Announcement of Extension Teaching, 1913-14, 413
 Announcements, 45, 57, 478-79
 Annual Fellowships, Foundation of, 437
 Annual Scholarships, 442
 ANTHROPOLOGY, DEPARTMENT OF, 45, 63-64. Courses, 63-64; Officers of Instruction, 63; Summer Session, 64
 Anthropometric Laboratory, 152
 Apparatus, etc., Deposits for, 51
 Application for Examination, 174-75
 Applied Metallurgy, 135
 Appointment committees, 52
 Arabic, Courses in, 144
 ARCHITECTURE, DEPARTMENT OF, 45, 64-66; Admission subjects, 177; Courses, 64-66, 324-26; Extension, 66; Officers of Instruction, 64; Summer Session, 66

- Architecture, Essays on, 65; Evening Courses in, 412
 Arithmetic, Entrance Requirements in, 179
 Armenian, Course in, 142
 Army and Navy Scholarship, 455;
 Award, 466
 Art, Advisory Committee on, 8
 Arthur Brooks Fund, 453
 Assay Laboratory, 134
 Assistant Librarians, 6
 Assistants, 30-32; at the Vanderbilt
 Clinic, 32-33; Clinical, 86, 89;
 Summer Session, 38-39
 Associates, 23-25
 Assyrian, Courses in, 143-44
 ASTRONOMY, DEPARTMENT OF, 45, 66-67
 Courses, 66-67; Equipment, 67;
 Library, 67; Officers of Instruction,
 66
 Athletic Field, 153
 Athletics, University Committee on, 59
 Avery Architectural Library, 54, 323
 Avestan, Courses in, 142
 Award of honors (1913), 461
 Awards of Fellowships, Scholarships,
 Honors, Prizes, etc., 456-67

 Babies' Hospital, 90, 233, 235
 Bachelor of Architecture, Courses for
 degree of, 324
 Bachelor of Arts, Courses for degree of,
 194-97
 Barnard College, 342, 343, 411, 413,
 416-17
 Bachelor of Laws, Courses for degree of,
 218, 417-18
 Bachelor of Music, Courses for degree of,
 327, 470
 Bachelor of Science, Courses for degree of,
 196-97
 Barnard College, 340, 343, 413, 417
 Bachelor's Degree, 43
 Bachelor's Diploma in Education, con-
 ferred in 1912-13, 422-24
 Bacteriological Chemistry, Courses in, 70
 BACTERIOLOGY, DEPARTMENT OF, 45,
 67-68; Courses, 68; Equipment, 68
 Bar Association Library, 95, 124, 128
 Barnard, Anna E., Scholarship, 453
 BARNARD COLLEGE, 43, 45, 50, 174, 339-
 58, 453, 463
 Admission, 340-42, 343
 Advanced Standing, 341
 Courses for degrees, 342-44; in
 Botany, 73; in Chemistry, 77,
 78, 80; General two years
 343; University courses, 344-45
 Degrees offered at, 43, 343-44; con-
 ferred, 416-17
 Dormitory, 57, 342
 Examination subjects, 176-77
 Examinations, 173, 174, 176-77, 178
 Executive Committee, 2
 Faculty, 339; Delegates to University
 Council, 4; Standing committees,
 339
 Fees, 50, 342
 Fellowship, 453; Award, 463
 French, 162-63
 General Statement, 339-40
 Greek, 84-85
 Honors, 453, 464-65
 Laboratories, 80, 157
 Latin, 85
 Library, 55
 Loan Funds, 453
 Matriculation, 342
 Modern Languages, 342-43
 Officers of Administration, 5-6
 Options in professional schools, 342
 Philosophy, 148
 Physics, 155
 Physiology, 159
 Probation, 340-41
 Program of studies, 342-43
 Publications, 479
 Register of students, 345-58
 Registrar's Office, 46
 Registration, 342
 Requirements, New, in Modern
 Languages, 342-43
 Scholarships, Prizes, and Honors,
 452-53; Awards, 463-65
 Spanish, 164
 Special Students, 341-42, 356-57
 Standing Committees, 339
 Trustees, 2
 Zoology, 170
 Barnard Fellowship, 441-42; Awards, 456
 Barnard Medal, 447; Awards, 459
 Beck (College), 442-43
 Beck Prize Scholarships, 443; Awards,
 461-62
 Beer Lectures in Political Science, 128
 Bellevue Hospital, 90, 160, 161, 233;
 Clinical clerkships at, 235
 Benefactors' Scholarships, 443
 Bennett Prize, 448-49
 Request, Form of, ii
 Bibliography, University, 476
 Biochemical Association, 71
 Biochemical Seminar, 70
 BIOLOGICAL CHEMISTRY, DEPARTMENT OF,
 45, 68-71
 Courses in Bacteriological, Botanical,
 Organic, Pathological, Physiological,
 Sanitary, and Toxicological Chem-
 istry, 68-70; Equipment, 70-71;
 Library, 70; Research, 70; Summer
 Session, 70; Teaching staff, 68
 Biological Lectures, University, 171
 BIOLOGY, DIVISION OF, 45, 71
 Biology, Entrance Requirements in, 180
 Blumenthal, George, Jr., Scholarship,
 443
 Blumenthal Lectures in Politics, 128;
 Lectures, 470
 Board of Managers of the George Crocker
 Special Research Fund, 8
 Board of Managers of the Sloane Hospital
 for Women, 7
 Board of Managers of Vanderbilt Clinic, 7
 Bookstore, University Press, 56
 BOTANY, DEPARTMENT OF, 45, 71-75
 Convention, 72-73; Courses, 71-73;
 at Barnard College, 74; Exten-
 sion, 73; Summer Session, 73;
 Equipment, 74-75; Library, 74;
 Museum, 74; Teaching staff, 71
 Botany, Entrance requirements in, 180
 Brearley School Scholarship, 453
 Breitenbach, Max J., Prize, 467
 Bronx Zoological Garden, 172
 Brooklyn Bureau of Charities, 95
 Brooklyn Scholarships (Barnard College),
 452; Awards, 463

- Brooklyn Scholarships (Columbia College), 443; Awards, 461
 Brooks Hall, 57
 Bryson Library, 55, 359
 Buildings and Equipment (Teachers College), 359-60
 Buildings and Grounds, Committee on, 1; Superintendent of, 6
 Buildings, Grounds, and Equipment, School of Medicine, 231
 Bulletins of Information, 61, 174, 175, 179
 Bunner Medal, 447-48
 Burgess Scholarships, 443
 Butler, Richard, Scholarship, 444; Awards, 459
 Calendar, Academic, 481-84
 Calendar, Commencement (1913), 434
 Camp Columbia, 82
 Campbell Scholarships, 444
 Candidates for degrees, 186-92, 194-96, 364-71, 371-84; with honors, 194-96; Courses prescribed, 194-97; Fees, 50; Regulations, 194-97, 249
 Carl Schurz Fellowship, 117, 441; Awards, 458
 Carl Schurz Library Fund, 117
 Caroline Scholarships, 454; Awards, 466
 Carpentier Lectures in Law, 128; Lecturers, 471
 Carroll-Robbins Training School (Trenton), 413
 Cartwright Prize, 449; Award, 482
 Catalogue, Annual, 478
 Catalogues, Library, 55
 Celtic Language, 45
 Central High School (Springfield), 413
 Certificate in Architecture, 44; Course for, 323, 325
 Certificate in Commerce, 412
 Certificate of Proficiency, Courses for, 323, 324-25
 Certificate of Proficiency (Music), 44; Program of Studies for, 326-27
 Certificate, Qualifying, for a Pharmacy Student, 396
 Certified Public Accountant, 412
 Chanler Historical Prize, 449
 Chaplain, 6
 Charity Organization Society, 95; School of Philanthropy, 95
 Chemical Engineer, Courses for degree of, 260-61
 Chemical Engineering, Course in, 260-61
 Chemist, Courses for degree of, 261-62
 Chemistry, Bacteriological, Courses in, 70
 Chemistry, Biological, Department of, 68-71
 Chemistry, Courses in, 75-78, 261-62
 CHEMISTRY, DEPARTMENT OF, 39, 75-80
 Courses, 75-78; at Barnard College, 77-78, 80; Extension, 78; Summer Session, 78; other, 78-79; Equipment, 79-80; Instruction, 261-62; Laboratories, 79-80; Library, 80; Museum, 79; Teachers College, 80; Teaching staff, 75
 CHEMISTRY, DIVISION OF, 45
 Chemistry, Entrance requirements in, 180
 Household, Courses in, 124
 Organic, Course in, 68
 Pathological, Courses in, 69
 Physiological, Courses in, 69, 70, 124
 Sanitary, Course in, 70
 Toxicological, Course in, 70
 CHEMISTRY, SCHOOL OF, *see* SCHOOL OF CHEMISTRY
 Children's Ward of Bellevue Hospital, 90
 CHINESE, DEPARTMENT OF, 45, 141
 Courses, 141
 Chisholm, Eliza Taylor, Memorial Scholarship, 453
 Choral Music, Centres for the study of, 412
 Church History, 120-21
 City Hospital, Clinics at, 233
 Civil Engineer, Courses for degree of, 254-55, 256-57
 CIVIL ENGINEERING, DEPARTMENT OF, 45, 80-83
 Courses, 80-83, 254-55, 256-57; Graduate, 82-83; Highway Engineering, 82; Summer Courses in Surveying, 82; Equipment, 83; Teaching staff, 80
 Civil Engineering, Laboratory fees in Summer Course in, 50
 Clark, Alonzo, Scholarship, 444
 Clark Scholarships, 443
 Clarkson, Jennie B., Scholarship, 453
 Class of 1848 Scholarships, 444
 Class of 1885 Scholarship, 444
 Class of '70 Fellowship, 437; Award, 456
 Class of 1887 School of Mines Fund, 447
 Classical Archaeology, Courses in, 86
 Classical Civilization, 84, 86
 CLASSICAL PHILOLOGY, DEPARTMENT OF, 45, 83-87
 Courses:
 Classical Archaeology, 86-87; Proseminar, 87; Seminar, 87
 Comparative Philology, 87
 Greek: Barnard College, 84-85; Columbia College, 83-84; Graduate Courses, 86; Summer Session, 87
 Latin: Barnard College, 85-86; Columbia College, 84; Extension, 87; Graduate Courses, 86; Summer Sessions, 87; Teachers College, 84, 86; Teaching staff, 83
 Classical Proseminar, 87
 Classical Seminar, 87
 Classification of Students, 198
 Classroom Work, 60
 Clay-Modelling, Courses in, 125
 Clerk of Trustees, 1
 Clinic, Chiefs of, give medical advice, 52
 Clinical Assistants, 32-33, 88, 89, 117, 159, 168
 Clinical clerkships, 54, 160, 232, 235
 CLINICAL INSTRUCTION, DEPARTMENT OF, 87-89; Courses, 88-89; Teaching staff, 88
 CLINICAL PATHOLOGY, DEPARTMENT OF, 64, 160-61
 Courses, 160-61; Equipment, 161-62; Laboratory, 161; Research, 161; Teaching staff, 160
 Clinical Professors, 23, 160-61
 Clinics at the hospitals, 233, 235
 Clothing, Courses in Textiles and, 124
 Coe, Mrs. Henry Clarke, Scholarship, 453
 Cold Spring Harbor Laboratory, 54
 Collection, Metallurgical, 134
 Collections, Library, 54, 128
 Collections, Paleobotanical, 112
 College Entrance Diploma, 175

- College Entrance Examination Board, 173-75, 362, 397; Examinations, 173, 174; Fee, 174, 175; Question papers, 179
- COLLEGE OF PHARMACY, 3, 44, 45, 46, 50, 53, 146, 396-408
- Administrative Board, 5; Admission, 396; Courses of study, 146, 397-98; Delegate to University Council, 4; Examination subjects, 177, 179; Faculty, 396; General Statement, 396; Library, 55; Method of Instruction, 398; Officers of Instruction, 396; Prizes, 467; Publication, 480; Register of Students, 399-408; Registrar's Office, 46; Special fees, 50; Summer Preparatory Course, 398; Trustees, 3
- COLLEGE OF PHYSICIANS AND SURGEONS (School of Medicine), 4, 41, 44, 45, 158, 230-46
- Admission, 173, 235-36; Advanced standing, 235-36; Alliance with the Presbyterian Hospital, 54, 231-32; Buildings, ground, and equipment, 231; Clinics at the Hospitals, 233, 235; Collections, 232; Course of study for Degree of M.D., 238-39; Delegates to University Council, 4; Emeritus Professors, 5; Equipment and Collections, 23; Faculty, 230; Fees, 47, 48; Fellowships, 436-37; General plan of instruction, 233-35; Historical statement, 230-31; Library, 55, 232; Options, 196; Prizes, 448; Register of students, 240-46; Registrar's Office, 46; Requirements for admission, 235-37; for graduation, 237; Scholarships, Fellowships and Prizes, 443-47; Special students, 233; Standing committees, 230; Summary, 246; Summer Session, 237; Vanderbilt clinic, 232-33
- College of the City of New York, 56
- College study, 55
- Colleges and Schools, 43-45
- COLUMBIA COLLEGE, 42-43, 193-215
- Admission, 173-76, 193; Advanced standing, 193; Advice to students, 198; Choice of studies, 198; Classification of students, 198; Credit for high standing, 197; Degrees, 194, 196; with honors, 194-97; Delegates to University Council from, 4; Entrance Requirements, 173-85; Examination subjects, 176-78; Faculty, 193; Fees, 47-51, 174-75; Grades, Credits, and Reports, 197; Options in Professional Schools, 196-97; Program of studies, 194; Register of students by classes, 199-215; Registration, 46-47; Requirements for Graduation, 194-96; Scholarships, 435-47; Special courses, 193; Standing committees, 193
- Columbia Fellowship in Architecture, 437; Awards, 462
- COLUMBIA UNIVERSITY, 41-45; Admission, 173-85; Examination subjects, 176-78; Examination, 173-76
- Columbia University Press, 476; Bookstore, 56; Trustees, 476
- Columbia University Quarterly*, 477
- Columbiana, 54
- Commencement Calendar, 1913, 434
- Commerce and Finance, Courses in, 91; evening courses, 412
- Committee on Administration: College of Physicians and Surgeons, 230
- Committee on Admissions: College of Physicians and Surgeons, 230
- Faculty of Fine Arts, 321
- Committee on Art, Advisory, 8
- Committee on Athletics, 59
- Committee on Buildings and Grounds: Barnard College Trustees, 2
- University Trustees, 1
- Committee on Education: Barnard College Trustees, 2
- University Trustees, 1
- Committee on Employment for Students, 51-52
- Committee on Finance: Barnard College Trustees, 2
- University Trustees, 1
- Committee on Honors: Barnard College, 339
- University Trustees, 1
- Committee on Instruction: Barnard College, 339
- Columbia College, 193
- Faculty of Fine Arts, 321
- Faculty of Philosophy, 279
- Faculty of Political Science, 278
- Faculty of Pure Science, 280
- Schools of Mines, Engineering, and Chemistry, 247
- Committee on Scholarships: Barnard College, 339
- College of Physicians and Surgeons, 230
- Columbia College, 193
- Faculty of Fine Arts, 321
- Committee on Student Organizations: Barnard College, 339
- University, 8
- Committee on Students' Library: College of Physicians and Surgeons, 230
- Committee on the Library, 1
- Committee on Undergraduate Admissions, 173, 179, 362; Applications, 174-75; Definitions of requirements, 179-85; Examinations by, 173; Fees, 174-75; Restrictions governing credits, 175-76; Schedule of examinations, 178-79; Subjects, 176-78
- Committees, Appointment, 52
- Committees, Standing: Barnard College, 339; Trustees, 2
- College of Physicians and Surgeons, 230
- Columbia College, 193
- Faculty of Fine Arts, 321
- Faculty of Political Science, 278
- Schools of Mines, Engineering, and Chemistry, 247
- COMPARATIVE JURISPRUDENCE, DEPARTMENT OF PUBLIC LAW AND, 45, 126-28
- Comparative Jurisprudence, Courses in, 127
- COMPARATIVE LITERATURE, DEPARTMENT OF ENGLISH AND, 45, 104-8; Courses, 107-8; Teaching staff, 104
- Commons, University, 56
- Comparative Philology, Courses in, 87

- Conscientious Scruples, 46n
 Constitutional Law, Courses in, 126
 Convers Prize, 449; Award, 462
 Cookery, Courses in Foods and, 124;
 Entrance Requirements in, 183
 Council, University, 4, 42
 Course, General two years' (Barnard Col-
 lege), 343
 Course numbers, Significance of, 60
 Courses, Advanced, 43-44
 Courses of study, 42-43, 60
 Administration, Educational, 97;
 Hospital, 141; Institutional, 124
 Administrative Law, 127-28
 Agriculture, 61
 Anatomy, 62-63, 238
 Anthropology, 63-64
 Arabic, 144
 Architecture, 64-66, 322-23, 419
 Armenian, 142
 Art, History of, 89
 Assyrian, 143-44
 Astronomy, 66-67
 Avestan, 142
 Bacteriological Chemistry, 70
 Bacteriology, 67-68, 238, 239
 Biological Chemistry, 68-71, 238-39
 Biology, 71
 Botany, 70, 71-75
 Chemical Engineering, 260-61
 Chemistry, 75-80, 124, 238, 261-62
 Chinese, 141
 Choral Music, 412
 Church History, 120-21
 Civil Engineering, 80-83, 247, 254-57
 Classical Archaeology, 86
 Classical Philology, 83-87
 Clinical Instruction, 87-89
 Clinical Pathology, 160-61
 Clothing and Textiles, 124
 Commerce and Finance, 91, 412
 Comparative Jurisprudence, 127
 Comparative Literature, 107-108
 Comparative Philology, 87
 Constitutional Law, 126
 Cookery and Foods, 124
 Dermatology, 238-39
 Design, 89, 124
 Diseases of Children, 89-90, 238-39
 Drafting, 90
 Drawing and Design, 124
 Drug and Food, 147, 397, 398
 Economics and Social Science, 91-95
 Education, 95-101
 Egyptian, 145
 Electrical Engineering, 102-4, 258-59
 English, 104-107
 Epigraphy, 143
 Ethics, 148
 Ethiopic, 144
 Finance, 91, 412
 Fine Arts, 64-66, 89, 109, 324-25
 Food and Drug, 147, 397, 398
 Food Economics, 124
 Foods and Cookery, 124
 French, 162-64, 165, 166
 Genito-Urinary Diseases, 238-39
 Geodesy, 67
 Geography, 109
 Geology, 110-112
 German, 113-115
 Germanic Philology, 115-116
 Gothic, 115
 Greek, 83-87
 Gynecology, 117-18, 238-39
 Health, 124, 141
 Hebrew, 143
 Highway Engineering, 82
 History, 118-24
 Hospital Administration, 141
 Hospital Clinics, 233, 235
 Household Arts, 101, 124
 Icelandic, 115
 Industrial Arts, 124, 128, 167
 International Law, 127
 Italian, 164-66
 Kindergarten Education, 100
 Language, Science of, 142
 Laryngology, 86, 238-39
 Latin, 85-87
 Law, 125-28, 216-29
 Library Economy, 409
 Manual Training, 128, 167
 Mathematics, 129-31
 Mechanical Engineering, 132-33, 254-
 60
 Medicine, 238-39
 Metallurgy, 133-34, 254-56
 Mineralogy, 135-36
 Mining, 136-38
 Morphology, 62
 Municipal or Private Law, 125-26
 Municipal Nursing, 141
 Music, 139, 327, 412
 Nature Study, 140
 Neurology, 140-41, 238-39
 Nursing, 124, 141
 Nutrition, 69, 70, 124
 Obstetrics, 141, 238
 Ophthalmology, 89, 238, 239
 Optics, 412
 Organic Chemistry, 68
 Oriental Languages, 141-45
 Orthopedic Surgery, 86, 238-39
 Otology, 89, 238-39
 Pahlavi, 142
 Paleobotany, 107
 Pali, 142
 Pathological Chemistry, 69
 Pathology, 145, 238-39
 Pharmacology, 238
 Pharmacy, 146-47, 397-98
 Philology, Germanic, 115
 Philosophy, 147-50
 Philosophy of Education, 96
 Photography, 125
 Physical Diagnosis, 236
 Physical Education, 152-54
 Physics, 152
 Physiological Chemistry, 69, 70,
 124, 238
 Physiology, 157-59, 238-39
 Political Economy, 92
 Political Philosophy, 120, 122
 Politics, 126, 279
 Practice of Medicine, 159-61, 238-39
 Preparatory, 412
 Professional, 252-62
 Psychology, 97, 150-51
 Public Law, 127-28
 Religion, 162
 Religious Education, 100-1
 Rhetoric and English Composition,
 108
 Roman Law, 128
 Romance Languages and Literatures,
 162-67

Courses of Study—*Continued*

- Romance Philology, 164
 - Sanitary Chemistry, 70
 - Sanitary Engineering, 81, 82, 247, 257-58
 - Sanskrit, 142
 - Scandinavian, 115
 - School Nursing, 141
 - Science of Language, 142
 - Secondary Education, 97-99
 - Secretary, Position of, 412
 - Semitic Languages, 143-44
 - Shopwork, 184
 - Social Economy, 93-95
 - Sociology and Statistics, 93-94
 - Spanish, 164-66
 - Surgery, 168-69, 238-39
 - Surveying, 80-83, 256-57
 - Technical Education, 101, 124, 167
 - Textiles and Clothing, 124
 - Therapeutics, 142, 238-39
 - Toxicological Chemistry, 70
 - Turkish, 142
 - Woodworking, 124
 - Zoölogy, 170-71
- See also* Program of Studies
- Courses of study, Advanced, 43-45
 - Courses, Prescribed for a degree with honors, 195
 - Courses, professional, Summary of, 252-62
 - Courses, Statement of, 198
 - Courses, Summer Session of 1913, 409
 - Credit for high standing, 194, 197
 - Credit for work done elsewhere, 191
 - Credits for examinations, 175-76, 193
 - Curriculum:
 - Schools of Mines, Engineering, and Chemistry, 249, 252
 - Curtis, George William, Fellowship, 437; Awards, 456-57
 - Curtis Medals, 448; Awards, 461
 - Curtis University Scholarships, 445; Awards, 459
 - Cutting Scholarships, 443
 - Daly, Marcus, Scholarship, 444; Award, 462
 - Darling Prize, 449; Awards, 462
 - Deficiency Examinations, 250-51
 - Definitions of requirements (entrance examinations), 179-85
 - Degree with honors, 194-96
 - Degrees:
 - Bachelor of Architecture, 50, 324, 344, 419
 - Bachelor of Arts, Barnard College, 43, 176, 326, 340, 342, 343, 411, 413, 416-17
 - Bachelor of Arts, Columbia College, 42, 50, 61, 176, 194-97, 326, 411, 413, 415
 - Bachelor of Laws, 44, 50, 61, 218, 417-18
 - Bachelor of Literature, 44, 50, 177, 333, 335, 344, 420
 - Bachelor of Medicine, 230
 - Bachelor of Music, 50, 326, 327, 344, 420
 - Bachelor of Science, Barnard College, 43, 176, 326, 340, 343, 411, 413, 417
 - Bachelor of Science, Columbia College, 42, 49, 61, 176, 196-97, 249, 411, 413

- Bachelor of Science in Architecture, 324; Education, 44, 360, 363, 413, 420-21; Pharmacy, 177, 397, 398; Practical Arts, 44, 177, 344, 363
 - Bachelor's Diploma in Education, 360, 413, 422-24
 - Certificate of Proficiency, 323, 324-25, 420
 - Chemical Engineer, 247, 252, 260-61, 419
 - Chemist, 247, 252, 261-62, 419
 - Civil Engineer, 81, 247, 252, 256-57, 419
 - Doctor of Medicine, 44, 61, 230, 231, 233-35, 238-39, 418
 - Doctor of Pharmacy, 45, 397, 398, 425-26
 - Doctor of Philosophy, 43, 44, 48, 50, 137, 186, 187-90, 218, 248, 325, 361, 363, 431-33
 - Doctor's Diploma in Education, 38, 361, 421
 - Electrical Engineer, 247, 252, 258, 419
 - Engineer of Mines, 247, 252, 253, 418-19
 - Graduate in Pharmacy, 396, 397
 - Master of Arts, 43, 44, 48, 50, 137, 186-87, 190-92, 218, 248, 325, 326, 327, 361, 363, 411, 413, 426-31
 - Master of Laws, 192, 218, 431
 - Master's Diploma in Education, 38, 361, 421-22
 - Mechanical Engineer, 247, 252, 259-60
 - Metallurgical Engineer, 247, 252, 254-55, 419
 - Pharmaceutical Chemist, 45, 173
 - Special Diploma in Education, 424-25
 - Pharmaceutical Chemist, 45, 173, 397, 425-26
 - Special Diploma in Education, 424-25
- Degrees conferred during 1912-13, 415-33; Honorary, 433
- Degrees, Higher, Regulations for, 186-92
- Degrees offered at Barnard College, 43
- Degrees offered at Columbia College, 42, 43
- Delegates, Elected, to University Council, 4
- Delta Sigma Alumnae Scholarship, 454
- Demonstrations, 60
- Department and school, Distinction between, 61
- Departmental Statements defined, 61
- DEPARTMENTS AND DIVISIONS, 43-45
- Statements of, 60-172 (in alphabetical order)
- DEPARTMENTS OF STUDY, in alphabetical order, 61-172
- Deposits for apparatus, etc., 51
- Dermatology, Assistants in, 33, 88; Courses, 88
- Design, Courses in Drawing and, 89, 124
- Design, Work in, abroad, 325
- Deutscher Verein, 117
- Deutsches Haus, Library, 55
- Devondorf Scholarship, 444-45; Award, 459
- Diplomas for degrees, 44, 191, 361
- Discipline, 46

- Diseases, Genito-urinary, Assistants in, 33
 Diseases of Children, Assistants in, 33
 DISEASES OF CHILDREN, DEPARTMENT OF, 89-90, 238-39; Courses, 89-90; Post-graduate Instruction, 90; Teaching staff, 89
 Dissertation for degree of Doctor of Philosophy, 189
 Divisional and Departmental Statements, 60-172 (in alphabetical order)
 Divisions, 43-45; Announcements of, 45; *see* Departments and Divisions
 Doctor of Medicine, Course for degree of, 238-39; *see* Degrees
 Doctor of Pharmacy, Course for degree of, 397, 398
 Doctor of Philosophy, Course for degree of, 137; Regulations, 187-90
 Dormitories, 56-57
 DRAFTING, DEPARTMENT OF, 45, 90-91; Courses, 90-91; Teaching staff, 90
 Drafting-room work, 60
 Drawing and Design, Courses in, 124
 Drawing, Entrance requirements in, 180
 Drew Theological Seminary, 54
 Drisler Fellowship, 438; Awards, 457
 Drug, Food and, Course, 147, 397, 398
 Dubois Fellowship, 438
 Dutch language, Books in the, 116
 Earl Hall, 57, 58, 178; Secretary, 58
 Earl Scholarship, 454; Awards, 466
 Earle Philological Library, 55
 Earle Prize in Classics, 449; Award, 460
 East-Side House, 95
 ECONOMICS AND SOCIAL SCIENCE, DEPARTMENT OF, 45, 91-95, 278; Courses in Political Economy and Finance, 91-93; Summer Session, 92; Extension, 93; Sociology and Statistics, 93-94; Summer Session, 94; Extension, 94-95; Equipment, 95; Library facilities, 95; Teaching staff, 91
 Economics, *see* HISTORY, ECONOMICS, AND PUBLIC LAW
 Economy, Library, Courses in, 409
 Economy, Political, Courses in, 92
 Economy, Social, Courses in, 93-95
 Education, Commercial, Courses in, 91, 412
 Education, Committee of Trustees on, 1
 EDUCATION, DIVISION OF (FACULTY OF TEACHERS COLLEGE), 45, 95-101; Admission, 173; Courses in Educational Administration, 97; Educational Psychology, 97; Elementary Education, 99-100; History of Education, 96; Household Arts Education, 101; Kindergarten Education, 100; Philosophy of Education, 96; Physical Education, 152; Religious Education, 100-1; Secondary Education, 97-99; Technical Education, 101; School of Education, 360-61; School of Practical Arts, 361-63
 Education, Household Arts, Courses in, 101
 Education, Industrial Arts, Courses in, 124, 128, 167
 Education, Nurses', Courses in, 124, 141
 Educational Administration, Courses in, 97
 Educational Library, 55, 359
 Educational Museum, 360
 Educational Psychology, Courses in, 97
 Eggleston Mineralogical Museum, 136
 Egyptian, Courses in, 145
 Einstein Prize, 450; Award, 460
 Electives, *see under* Examination Subjects, 176-78
 Electives in Medicine, 238
 Electrical Engineer, Courses for degree of, 258
 ELECTRICAL ENGINEERING, DEPARTMENT OF, 45, 102-4; Courses in, 102-3, 247, 258-59; Summer Session, 103; Equipment, 103-4; Extension, 103; Laboratories and Museums, 103-4; Teaching staff, 100
 Electro-Chemistry, Laboratory for Practical, 79
 Elementary Education, Courses in, 99-100
 Elementary School, Teachers College, 36-37
 Ella Weed Scholarship, 453
 Elsberg Prize, 450; Award, 461
 Emeritus Officers, 6
 Employment for Students, Committees on, 51-52
 Engineer of Mines, Courses for degree of, 253-54
 Engineering Building, 103
 ENGINEERING, DIVISION OF, 45
 ENGINEERING, MECHANICAL, DEPARTMENT OF, 45, 132-33; Courses, 132-33, 254-60
 ENGINEERING, SCHOOL OF, *see* SCHOOL OF ENGINEERING
 ENGINEERING DRAFTING, DEPARTMENT OF, 45
 English, Advanced, Entrance requirements in, 180-81
 ENGLISH AND COMPARATIVE LITERATURE, DEPARTMENT OF, 45, 104-8; Courses, 104-8; Extension, 108; Summer Session, 107-8; Teaching staff, 104; Undergraduate courses in Teachers College, 106-7
 English, Courses in, 104-7; Entrance requirements in, 180
 English Composition, Courses in, 104-7
 Entrance deficiency, 250-51
 Entrance Requirements, 173-85; Application for examination, 174-75; Committee on Undergraduate Admissions, 173; Definitions of requirements (in alphabetical order), 179-85; Examination fee, 174-75; Examination subjects, 176-78; Examinations and records, 173-79; General Statement, 173; Restrictions governing credits for examinations, 175-76; Schedule of examinations, 178-79; Subjects, 176-78; Submission of Note-books, Drawings, etc., 179
 Epigraphy, Courses in, 143
 Essay for degree of Master of Arts, 191
 Ethics, Courses in, 148
 Ethioptic, Courses in, 144
 Evening Courses, *see* EXTENSION TEACHING, Courses, 411-14
 Evening courses, Summer Session, 1913, 409

- Evening Technical Courses, 125, 411-14, 418-19
- Examination, Application for, 174-75, 251, 253; Fee, 49, 174-75, 248, 250, 251; Subjects, 176-78
- Examinations for degree of Master of Arts, 190-92; of Mines, Engineering, and Chemistry, 248, 250-51
- Examination, Oral, for degree of Doctor of Philosophy, 189
- Examinations:
- College Entrance Examination Board, 173, 174, 175
 - Committee on Undergraduate Admissions, 173; Applications, 174-75; Definitions of requirements, 179-85; Fees, 49, 174-75; Restrictions governing credits, 175-76; Schedule, 178-79; Subjects, 176-78; Submission of notebooks, etc., 179
 - State Examination Board, 173, 175
- Examinations, System of, Columbia College, 198; Faculty of Fine Arts, 321; School of Law, 217-18
- Exchange Professors, 468-69
- Executive Committee, Barnard College Trustees, 2
- Expenses, Student's probable, 51
- Extension courses, *see* Courses under the various Departments
- EXTENSION TEACHING, 45, 251, 411-14; Administrative Board, 7; Admission, 413; Announcements, 45; Courses, 411-12; Fees, 49, 412-13, 414; General Statement, 411-14; Location of, 413; Officers of Instruction, 39; Representative in University Council, 4; Students, 411; Registration, 412
- Faculties and Schools, 42-45
- Faculties and Teaching Staff, Members of, 9-39
- FACULTIES OF POLITICAL SCIENCE, PHILOSOPHY, AND PURE SCIENCE, 278-320; Register of students, 1913-14, 282-320; Summary, 320
- FACULTY OF APPLIED SCIENCE, 247; Committee on Instruction, 247; Delegates to University Council, 4
- Faculty of Barnard College, 339; Delegates to University Council, 4, 339
- Faculty of Columbia College, 193; Delegates to University Council, 4
- FACULTY OF EDUCATION, 44, 45, 359
- FACULTY OF FINE ARTS: School of Architecture, Music, and Design, 4, 44, 45, 64-66, 321-31; Admission, 173, 322; Advanced standing, 322; Committees, 321; Courses, 64-66, 322-27; Delegate to University Council, 4; Examinations, 322-23; Fellowships and Scholarships, 437, 439, 445; General Statement, 321-27; Non-matriculated students, 322; Option in, 196-97; Register of students, 328-31. *See also* separate Schools of Architecture, Design, and Music
- FACULTY OF LAW, 4, 45, 125-28, 216; Course of studies, 219; Delegates to University Council, 4; Master of Laws, 192
- FACULTY OF MEDICINE, 230; Course of studies, 44; Degree of M.D., 44; Delegates to University Council, 4; Emeritus professors, 6; Standing committees: Administration, Admissions, Scholarships, Students' Library, 230. *See also* COLLEGE OF PHYSICIANS AND SURGEONS
- FACULTY OF PHILOSOPHY, 43, 279-80, 410; Courses of instruction, 43, 279-80; Delegates to University Council, 4; Faculty, 279; General statement, 279; Higher degrees, 186, 188, 189, 190, 279
- FACULTY OF POLITICAL SCIENCE, 43, 45, 278-79; Admission, 173; Courses of instruction, 43, 278-79; Delegates to University Council, 4, 278; Faculty, 278; General statement, 278; Higher degrees, 186, 187, 189, 190, 192; Standing Committee on Instruction, 278; Subjects for higher degrees, 187
- FACULTY OF PRACTICAL ARTS, 45, 359
- FACULTY OF PURE SCIENCE, 43-44, 280-81; Admission, 173; courses of instruction, 43, 280-81; Delegates to University Council, 4; Faculty, 280; General statement, 280; Higher degrees, 186, 188, 189; Program of studies, 281; Standing Committee on Instruction, 280
- Faculty of Teachers College, 359; Delegates to University Council, 4
- Faculty Scholarships (College), 445; (College of P. and S.), 445
- Fayerweather Hall, 131, 155
- Fees, 47-51
- Architecture, 47, 48; Candidates for degrees, 48; Chemistry, 47; Civil Engineering, 50; college, 47, 48, 51; College of P. and S., 47, 48; for Degrees, 50; Deposits, 51; Engineering, 47; Examinations, 49, 174-75, 248, 250, 251; Extension Teaching, 49, 412-13, 414; Geodesy, Summer Session, 51; Gymnasium, 50; Laboratory, Summer Session, 50; Laboratory instruction, 49, 50; Law, 47; Matriculation, 47; Medicine, 48; Mines, 47; Mining, Summer Session, 50, 51; Music, 47; Non-matriculated students, 48; Registration, 47, 413; School of Journalism, 48; Schools of Fine Arts, 47; Schools of Mines, Engineering, and Chemistry, 47, 48; Schools of Political Science, Philosophy, and Pure Science, 48-49; Special, 50; Summer Session, 49, 51; Surveying, Summer Session, 50; Tuition, 47-49
- Fellowship Fund (Teachers College), 453
- Fellowships:
- Adams Research, 436; Awards, 456
 - Alumni Association (P. and S.), 436-37; Awards, 482
 - American Archaeology and Ethnology, 437; Awards, 456
 - Barnard, 441-42; Awards, 456
 - Carl Schurz, 441; Awards, 458
 - Class of '70, 437; Awards, 456
 - College of Physicians and Surgeons, 436-37

Fellowships—Continued

- Columbia, in Architecture, 437; Awards, 462
 Curtis, George William, 437; Awards, 456-57
 Drisler, 438; Awards, 457
 Dubois, Abram, 438
 Field, Francis E., Award, 465
 Garth, 438; Awards, 457
 Gilder, R. W., 438-39; Awards, 458
 Goldschmidt, S. A., 439; Awards, 458
 Gottsberger, 439; Awards, 457
 Graduate (Barnard), 453; Awards, 463
 Honorary (Teachers), 453; Awards, 465
 Industrial Research in Chemistry; Award, 458
 McKim, in Architecture, 439; Awards, 457, 462
 Mitchell, Wm., 439; Awards, 458
 Mosenthal, 439-40; Awards, 457
 Perkins, 440; Awards, 463
 Proudfit, in Letters, 440; Awards, 457
 Proudfit, in Medicine, 440; Awards, 462
 Research Advertising, Award, 458
 Schiff Fellowship, 440-41; Awards, 457
 School of Architecture, 437, 439, 445; Awards, 457, 462-63
 Special, 437-42
 Tyndall, 441-42; Awards, 456
 University, 442; Awards, 456
 Fellowships, Annual, Foundation of, 437
 Fellowships, Scholarships, and Prizes, 435-55; Awards, 456-67; General Regulations, 435-36; Barnard College, 453, 463-65; College of Physicians and Surgeons, 436-37; Columbia University, 436-42; School of Architecture, 437, 439, 445; Awards, 457, 462-63; Teachers College, 453-55, 465-67; Schools of Mines, Engineering, and Chemistry, 249-51, 439, 441, 443, 444-46, 447-49; Awards, 456-62
 Finance, Committee on, 2
 Finance, Courses in, 91
 FINE ARTS, DEPARTMENT OF, 45, 64-66, 89, 109, 321-27; Admission, 322; Courses, 64-66, 89, 109, 324-25; Architecture, 64-66; Music, 326-27; General Statement, 321-27
 See also FACULTY OF FINE ARTS
 FINE ARTS, DIVISION OF (FACULTY OF FINE ARTS), 44, 45, 109, 321-27
 Fiske Hall, 157
 Fiske Scholarship Fund, 453
 Food and Drug Course, 147, 397, 398
 Food Economics, Courses in, 124
 Foods and Cookery, Courses in, 124; Entrance Requirements in, 183
 Foreign Research Fund (Teachers College), 454
 Founding Hospital, 90, 233
 Fraternities, Greek-Letter, 57-59
 Frederick Ferris Thompson Memorial Building, 153, 360
 French, Courses in, 162-64, 165, 166
 French, Entrance requirements in, 181
 French, Evening classes in, 167
 French, Reading at sight, 162, 190, 333
 French Hospital, Clinics at, 233
 French Societies, 167
 Furnald Hall, 56-57
 Garden Library, 54
 Garth Fellowship, 438; Awards, 457
 General Memorial Hospital, 233
 General Statement, 41-45; Announcements, 45; Departments and Divisions, 43-45; Historical, 41-42; Organization, 42; Schools and Colleges, 42-45
 Barnard College, 43, 339-44
 College of Pharmacy, 44-45
 College of Physicians, 44, 230-46
 Columbia College, 42-43, 193-215
 Extension Teaching, 45, 411-14
 Faculty of Fine Arts, 44, 321-27
 Faculty of Philosophy, 43, 279
 Faculty of Political Science, 43, 278
 Faculty of Pure Science, 43-44, 280
 Graduate Faculties, 43
 President, The, 42
 School of Architecture, 323
 School of Journalism, 44, 332
 School of Law, 44, 216-29
 School of Mines, 44, 247-77
 School of Music, 326
 Schools of Engineering and Chemistry, 44, 247-77
 Summer Session, 45, 409
 Teachers College, 44, 359-60
 University, The, 43-45; University Council, 42
 GENERAL THEOLOGICAL SEMINARY, 54, 121, 149; Courses, 162; Representative on University Council, 4; Options, 196
 General Theological Seminary Prizes, 450
 Genito-urinary diseases, Assistants in, 33; Courses in, 88, 238-39
 Geodesy, 67; Fee in Summer Course in, 51
 Geodetic equipment, 67
 GEOGRAPHY, DEPARTMENT OF, 109; Courses, 109; Summer Session, 109; Equipment, 109; Teaching Staff, 109
 Geography, Entrance Requirements in, 181
 GEOLOGY, DEPARTMENT OF, 110-12; Courses, 110-12; Extension, 112; Summer Session, 112; Equipment, 112; Teaching staff, 110
 GEOLOGY, GEOGRAPHY, AND MINERALOGY, DIVISION OF, 45
 George Blumenthal, Jr., Scholarship, 443
 George Crocker Special Research Fund, Managers of, 8
 German, Courses in, 113-15
 German dissertations, 54
 German, Entrance requirements in, 181
 German Hospital, 160, 168, 233; Clinical clerkships at, 235
 German Literature, Collection of, 54
 German, Reading at sight, 190, 333
 German Theological Seminary, 54
 Germanic Club, 117
 GERMANIC LANGUAGES AND LITERATURES, DEPARTMENT OF, 45, 112-17
 Courses: Dutch, 115; German, 113-15; Extension, 116; Summer Session, 115-16; Germanic

GERMANIC LANGUAGES AND LITERATURE
—Continued

- Philology, 115; Germanic Seminar, 115; Gothic, 115; Scandinavian, 115; Deutscher Verein, 117; Deutsches Haus, 117; Equipment, 116-17; Fellowship, 117; Germanic Club, 117; Library, 116-17; Teaching staff, 112-13
- Germanic Philology, Courses in, 115
- Germanic Seminar, 115
- Gies's Library, 70
- Gilder, Richard Watson, Fellowship, 438-39; Awards, 458
- Goethe Collection, 54
- Goldschmidt, Samuel Anthony, Fellowship, 439; Awards, 458
- Gothic, Course in, 115
- Gottsberger Fellowship, 439; Awards, 457
- Gould Boat-house, 153
- Governors of the College of the Province of New York, 41
- Grades, credit, and reports, 196-98
- Graduate courses in Architecture, 324-26; Mining, 137; Pharmacy, 147, 397-98
- Graduate faculties, 43-44
- Graduate Scholarships (Teachers College), 454
- Graduates, competent, Appointment committees assist, 52
- Graduation, Requirements for, 81, 194; College of Physicians and Surgeons, 237
- Graduation thesis, 81
- Graham School Scholarship, 453
- Grant Squires Prize, 451
- Greek, Entrance requirements in, 181-82
- Greek, Courses in, 83-87
- Greek-Letter Fraternities, 57, 59
- Grotius Collection, 55
- Gymnasium, 153; Fees, 50-51; Lockers and dressing-rooms, 153; Medical Director, 6, 154; Swimming pool, 153
- Gynecology, Assistants in, 32
- GYNECOLOGY, DEPARTMENT OF, 117-18
- Hamilton Hall, 50, 117, 198
- Harper Scholarships, 445; Awards, 461
- Harsen Scholarships, 445
- Hartley Hall, 56-57
- Harvard University Library Catalogue, 55
- Havemeyer Hall, the Department of Chemistry, 75, 79, 80, 104
- Health, Courses in, 124, 141
- HEALTH, DEPARTMENT OF NURSING AND, 141
- Health and Sanitary Officer, 58
- Hebrew, Courses in, 143
- Hewitt Lecturers, 470-71
- Hewitt Scholarships, 445; Awards, 461
- High School Teachers College, 36
- Highway Engineering, Courses in, 82
- HIGHWAY ENGINEERING, DEPARTMENT OF, 45
- Hispanic Society of America, 54, 128, 167
- Historical statement, School of Medicine, 230-31
- Historical statement, University, 41-42
- History, Entrance requirements in, 182
- HISTORY, ECONOMICS, AND PUBLIC LAW,

- DIVISION OF (FACULTY OF POLITICAL SCIENCE), 45, 278-79
- HISTORY AND POLITICS, DEPARTMENT OF, 45, 118-24, 279; Courses, 118-24; Extension, 123-24; Summer Session, 122-23; Equipment, 124; Special Library, 124; Teaching staff, 118
- History of Columbia University*, 41n
- History of Education, Courses in, 96
- Hoadley Scholarship, 454; Award, 466
- Holland Society Library, 54-55, 116, 128
- Honor sequences, 195
- Honor subjects, 195
- Honorary Degrees conferred in 1912-13, 433
- Honors, Award of (1913), 461
- Honors, Barnard College, 453; Awards, 464-65
- Honors, Committee of Trustees on, 1
- Honors, Degree with, 194-96
- Honors, Final examination for, 195-96
- Horace Mann School, 36, 360-61; Chemistry classes of, 80; Circular, 480
- Hospital Administration, Courses in, 141
- Hospital Clinics, Courses in, 233-35
- Hospital for the Ruptured and Crippled, 233
- Hospitals, 54; Clinical clerkships at, 235; Clinics at the, 233, 235
- Household Administration, Courses in, 124
- Household and Industrial Arts Scholarships, 455
- Household Art, Courses in, 124
- Household Arts Building, 71, 124, 360
- Household Arts Education, Courses in, 124
- HOUSEHOLD ARTS, SCHOOL OF, 124, 141
- Entrance Examinations in, 182-83
- Household Chemistry, Courses in, 124
- Hydraulic Laboratory, 83
- Hydrotherapy, Assistant in, 33
- Hygiene, Courses in, 152, 238
- HYGIENE AND PREVENTIVE MEDICINE, DEPARTMENT OF, 124; Courses in, 238
- Icelandic, Courses in, 115
- Illig Medals, 448; Awards, 462
- Incorporation, 41
- INDO-IRANIAN LANGUAGES, DEPARTMENT OF, 45, 141-42
- Courses in Armenian, 138; Avestan, Pahlavi, Pali, Persian, Sanskrit, 142; Science of Language, 142; Turkish, 142; Teaching Staff, 141
- INDUSTRIAL ARTS, SCHOOL OF, 124-25; Courses, 124-25, 128, 167; Summer Session, 125
- Industrial Arts Education, Courses in, 124, 128, 167
- Industrial Chemistry, Laboratory of, 79
- Industrial History, Entrance Requirements in, 182
- Industrial Mathematics, Courses in, 124
- Industrial Research in Chemistry Fellowships, 458
- Institute of Arts and Sciences, 413-14
- Institutional Administration, Courses in, 124
- Institutions, other, Relations with, 52-54
- Instruction, Officers of, 9-39
- Extension Teaching, 39
- Summer Session, 37-39

- Instruction, Plan of, School of, Medicine, 233-35
 Instruction and Research in Agriculture, Administrative Board on, 7
 Instructors, 25-29
 Instruments of Precision of Metallurgy, 135
 International Law, Courses in, 127
 Italian, Courses in, 164, 165, 166
 Italian, Entrance requirements in, 183
 Janeway Memorial Library, 161
 Jenkins Scholarships, Awards, 466
 Jesup Lectures, 470
 Jessie Kaufman Scholarship, 452; Award, 463
 Jewish Theological Seminary, 54
 John Crerar Library Catalogue, 55
 Jones, John D., Scholarship, 445; Awards, 459
 Journal Club (Geology), 111
 Journal Club (Physics), 155
 Journal Club (Physiology), 158
 Journal Club (Therapeutics), 169-70
 Journal Club in Zoology, 171
 JOURNALISM, DIVISION OF, 45
 JOURNALISM, SCHOOL OF, *see* SCHOOL OF JOURNALISM
 Jurisprudence, Comparative, Courses in, 127
 Kaiser Wilhelm Professorship, 52-53; Incumbents, 468-69
 Kant Collection, 54, 151
 Keys to desks and lockers, Deposits for, 51
 Kindergarten Education, Courses in, 100; Horace Mann Kindergarten, 37
 King's College, 35, 230
 Laboratories, *see under* Equipment in the various Departments
 Laboratory and other special fees and deposits, 50-51
 Laboratory instruction, fees, 50
 Laboratory work, 60
 Language, Science of, Courses in, 142
 Languages, *see* Ancient, Oriental, Modern
 Laryngology, Assistants in, 33, 88
 Laryngology, Courses in, 88-89
 Latin, Courses in, 85-87
 Latin, Entrance requirements in, 183
 Latin, required for Doctor's degree, 190
 Law, Administrative, Courses in, 127-28
 Law, Carpenter Lectures in, 128
 Law, constitutional, Courses in, 127
 Law, DIVISION OF, 125-28
 Law, international, Courses in, 127
 Law, MUNICIPAL OR PRIVATE, DEPARTMENT OF, 125-26; Courses, 125-26; Summer, 126; Teaching staff, 125
 LAW, PUBLIC AND COMPARATIVE JURISPRUDENCE, DEPARTMENT OF, 126-28; *see* PUBLIC LAW
 Law, Public, Courses in, 126-28
 Law, SCHOOL OF, 44, 216-29; *see* SCHOOL OF LAW
 Law Institute Library, 95, 128
 Law Library, 55; Collections in, 128, 215
 Lecture Illustrations in Mining, 138
 Lectures and other Special Officers of Instruction, 29-32; Special, 23
 Lectures, Beer, in Political Science, 128
 Lectures, Blumenthal, in Politics, 128; Lecturers, 471
 Lectures, Carpentier, in Law, 128; Lecturers, 471
 Lectures, Hewitt, 470-71
 Lectures, Jesup, 470
 Lectures, Law, 128
 Lectureships, Stated, 470-71
 Librarian, 6
 Librarians, Assistant, 6
 Libraries of Theological Seminaries, 54
 Libraries, Special, of Science departments, 55
 Library, The, 54-55; Catalogues, 55; Collections, 54; Committee on, 1; Department libraries, 55; German, 116; Reader's Manual, 56; Reading rooms, 55, 130; Use, 56
 Library Economy, Courses in, 409
 Library facilities for study of Law, 128
 Library of Congress Catalogue, 55
 Library of George A. Plimpton, 131
 Library of History and Political Science, Special, 124
 Library, Paleobotanical, 112
 Lincoln Hospital, Clinics at, 233
 LITERATURE, ENGLISH AND COMPARATIVE, DEPARTMENT OF, 45
 Literatures, *see* Ancient, Modern, Oriental
 Living accommodations, 56-57
 Livingston Hall, 56-57
 Livingston Scholarships, 454
 Loan Funds, 447; Barnard, 453
 Long Island Historical Society Library, 95, 124
 Loubat Prizes, 450-51; Awards, 460
 Low, A. A., Scholarships, 443
 Lucile Pulitzer Scholarships, 452; Awards, 463
 McClymonds, Louis K., Scholarship, 445; Award, 461
 McKim Fellowship in Architecture, 439; Awards, 457, 462
 McLean, Mrs. Donald, Scholarship, 453
 McVickar Professor of Political Economy, Library of, 95
 Macy Manual Arts Building, 125, 360
 Major subjects for higher degrees, 187-88, 342, 343
 Managers of Sloane Hospital for Women, 7
 Managers of the George Crocker Special Research Fund, 8
 Managers of Vanderbilt Clinic, 7
 Manhattan Rye, Ear and Throat Hospital, 233
 MANUAL TRAINING, DEPARTMENT OF, 128; Courses in, 128, 167; Marcellus Hartley Fund, 157; Marcus Daly Scholarship in Mining Engineering, 444; Awards, 462
 Mary Queen of Scots Library, 54
 Master of Arts, Courses for degree of, 137; Regulations, 190-92; *see also* Degrees
 Master of Laws, Regulations for degree of, 192
 Master's Diploma in Education conferred in 1912-13, 421-22
 MATHEMATICAL AND PHYSICAL SCIENCE, DIVISION OF, 45
 Mathematical Physics, 154
 Mathematical Reading-Room, 131
 MATHEMATICS, DEPARTMENT OF, 45, 129-31; Courses, 129-31; Extension, 130-31; Summer Session, 130; Equip-

- MATHEMATICS, DEPARTMENT OF—*Continued*
 ment, 131; Laboratory and Model room, 131; Libraries, 131; Reading room, 130; Seminar, 94; Teaching staff, 129
- Mathematics, Entrance requirements in, 183-84
- Mathematics, Industrial, Courses in, 124
- Matriculated students, 46, 198, 411, 412; Tuition fees of, 47-49
- Matriculation fee, 47
- Matriculation, Registration, Fees (Barnard College), 342
- Mechanical Engineer, Courses for degree of, 254-60
- MECHANICAL ENGINEERING, DEPARTMENT OF, 45, 132-33; Courses, 132-33, 247, 254-60; Equipment, 133; Method of study, 256-57; Teaching staff, 132
- Mechanical Laboratory, 83
- Mechanics, 154, 156
- Medals:
 Barnard, 447; Awards, 459-60
 Bunner, 447-48
 Curtis, 448; Awards, 461
 Colonial Dames, 455; Award, 467
 Gerard, Jenny, A., Award, 464
 Illig, 448; Awards, 462
- Kappa Psi, 467
 Society of Columbia University Architects, 448; Award, 463
- Medals and Prizes, 447-52, 455
- Medical Attendance, 58
- Medical Director of Gymnasium, 6, 154
- Medical Student Certificate of the Regents, 235
- Medical Visitor, 6, 58
- Medicine, Assistants in, 32
- MEDICINE, DIVISION OF (COLLEGE OF PHYSICIANS AND SURGEONS, *q. v.*), 45
- MEDICINE, PRACTICE OF, DEPARTMENT OF, 159-62; *see* PRACTICE OF MEDICINE
- MEDICINE, PREVENTIVE, DEPARTMENT OF, 124
- MEDICINE, SCHOOL OF, *see* COLLEGE OF PHYSICIANS AND SURGEONS
- Memoirs on assigned subjects, Schools of Mines, etc., 251
- Metal-working, Courses in, 125
- Metallurgical Collection, 134
- Metallurgical Engineer, Courses for degree of, 254-56
- Metallurgical Engineering, Courses in, 254-56
- Metallurgical Excursions, 134, 255
- Metallurgical Laboratory, 134, 255
- Metallurgical Library, 135
- METALLURGY, DEPARTMENT OF, 133-35; Courses, 133-34, 254-56; Equipment, 134-35; Excursions, 134; Teaching staff, 133
- METALLURGY AND MINING, DIVISION OF, 45
- Metropolitan Museum of Art, 53, 56, 65
- Milbank Memorial Building, 360
- MINERALOGY, DEPARTMENT OF, 45, 135-36; Courses, 135-36; Summer Session, 136; Equipment, 136; Museum, 136; Teaching staff, 135
- MINES, SCHOOL OF, *see* SCHOOL OF MINES
- MINING DEPARTMENT OF, 45, 136-39; Courses, 136-38; Graduate Courses, 137-38; Summer, 137; Equipment: Laboratories, Lecture illustrations, Library, Mines and Dressing Works, Museum, 138-39; Teaching staff, 136
- Mining, Fees for Summer Courses in, 51
- Mining, Summer Class in, 137
- Minor subjects for higher degrees, 188, 343
- Mitchell, William, Fellowship, 439; Awards, 458
- MODERN LANGUAGES AND LITERATURES, DIVISION OF, 45
- Moffat Scholarships, 446
- Morgan Scholarships, 443
- Mosenthal Fellowship, 439-40; Awards, 457
- Mt. Sinai Hospital, 160, 168, 233; Clinical Clerkships at, 235
- Municipal Nursing, Course in, 141
- MUNICIPAL OR PRIVATE LAW, DEPARTMENT OF, 125-26; Courses in, 125-26; Summer Session, 126; Library facilities, 218; Teaching staff, 125
- Museum of Chemistry and of the Chemical Arts, 79
- Museum of Human and Comparative Anatomy, 63
- Museum of Pathology, 145-46
- Museums, *see* under Equipment in the various Departments
- Music, Entrance requirements in, 184
- MUSIC, DEPARTMENT OF, 139-40, 327; Courses, 139, 327; Examination subjects, 177; Extension, 139; Summer Session, 139; Concerts and Recitals, 140; Equipment, 139-40; Teaching staff, 139
- MUSIC, SCHOOL OF, 326-27
- Musical Libraries:
 Pech, Dr. James, 55
 Seidl, Anton, 140, 326
- Naples Zoölogical Station, 168
- National Academy of Design, 44, 53, 322; cooperation with the, 321
- NATURE STUDY, DEPARTMENT OF, 140; Courses, 140
- Neurology, Assistants in, 32
- NEUROLOGY, DEPARTMENT OF, 140-41; Courses, 140-41; Teaching staff, 140
- New Brunswick (N. J.) Theological Seminary, 54
- New Jersey Alumni Association Prizes, Awards, 479
- New York Aquarium, 54
- New York Botanical Garden, 53, 71, 72, 74, 112; Museum, 74, 112
- New York Eye and Ear Infirmary, Clinics at, 233
- New York High Schools, 56
- New York Historical Society Library, 95, 124
- New York Hospital, Clinical clerkships at, 232
- New York Ophthalmic and Aural Institute, Clinics at, 233
- New York Public Library, 55, 95, 124, 152
- New York School of Philanthropy, 54; Library, 95
- New York State Examination Board, 173, 175
- New York University, 56
- New York Zoölogical Garden, 54, 71
- Newtown High School, Elmhurst, 413
- Nichols Laboratories, 79

- Non-matriculated students, 46:
 Barnard College, 341-42
 Columbia College, 193
 Extension Teaching, 411
 Faculty of Fine Arts, 322
 Faculty of Philosophy, 279
 Faculty of Political Science, 278
 Faculty of Pure Science, 280
 School of Architecture, 323
 School of Journalism, 333
 School of Law, 217
 School of Music, 322
 Schools of Mines, Engineering, and Chemistry, 249
 Special Courses, 193. Tuition fees, 48-49
- Normal College, The, 56
 Note-books, Submission of, 179
 Numbers, Course, explained, 60
 Nursery and Child's Hospital, 235
 Nurses, Education, Courses in, 141
 NURSING AND HEALTH, DEPARTMENT OF, 141
 Nursing, Courses in, 124, 141
 Nursing, Municipal, Courses in, 141
 Nursing, School, Courses in, 141
 Nutrition, Courses in, 69, 70, 124
- OBSTETRICS, DEPARTMENT OF, 141;
 Courses, 141; Teaching staff, 141
 Officers of administration, 5-8; Emeritus, 7
 Officers of Instruction, 9-39; Extension Teaching, 39; Summer session, 37-39
 Official publications, 476-80
 Ophthalmology, Assistants in, 33, 88; Courses in, 89
 Optics, Practical, Two years' course in, 412
 Optional Courses, *see* this sub-heading under Departments
 Options in the Professional Schools, 196; for Barnard College students, 342
 Oral examination for degree of Doctor of Philosophy, 189
 Ordronaux Prize in Law, 451
 Organic Chemistry, Course in, 68
 Organic Laboratory, 79; Museum, 79
 Organization, 42-45; of Departments and Divisions, 45; Schools and Faculties, 42-45
 Oriental History, Courses in, 144
 ORIENTAL LANGUAGES AND LITERATURES, DIVISION OF, 45, 141-45
 Orthopaedic Surgery, Assistants in, 32, 88; Courses in, 89
 Otolg, Assistants in, 33, 88; Courses in, 89
- Pahlavi, Courses in, 142
 Paleobotany, Courses in, 112; Library, 112
 Pali, Courses in, 142
 Parish Scholarship, 443
 Paterson (N. J.) High School, 413
 Pathological Chemistry, Courses in, 69; Laboratory of, 70
 PATHOLOGY, DEPARTMENT OF, 45, 68, 145-46; Courses, 145; Equipment, 145-46; Museum, 145; Teaching staff, 145
 Payne Loan Fund, 447
 Pech, Dr. James, Musical Library, 55
- Perkins Fellowship, 440; Awards, 463
 Persian, Courses in, 142
- PHARMACY, DIVISION OF (COLLEGE OF PHARMACY), 45, 146-47; Courses: College Course, 396; Food and Drug Course, 147, 397-98; Junior year, 146, 398; Senior year, 146-47, 398; Graduate courses, 147, 397-98; University course, 397; Teaching staff, 396. *See also* COLLEGE OF PHARMACY, 396-408
- Philology, Germanic, Courses in, 115
 Philosophy, Faculty of, 43
- PHILOSOPHY AND PSYCHOLOGY, DEPARTMENT OF, 45, 147-52; Admission, 173; Conference, 148-49; Courses in Philosophy, 147-50; Extension, 150; Summer Session, 149; in Psychology, 150-51; Extension, 151; Summer Session, 151; Equipment, 151-52; Library facilities, 151-52; Psychological Laboratory, 151; Teaching staff, 147
- PHILOSOPHY, PSYCHOLOGY, AND ANTHROPOLOGY, DIVISION OF, 45
 Philosophy Hall, Germanic Library, in, 117; New laboratories in, 157; Library of Romance Department in, 167
 Philosophy of Education, Courses in, 96
 Philosophy, Political, Courses in, 120-22
- PHILOSOPHY, PSYCHOLOGY, AND ANTHROPOLOGY, DIVISION OF, 45
 Phoenix Library, 54
 Phoenix Physical Laboratories, 157
 Photographs, Architectural, 323
 Photography Courses in, 125
 Photometric Laboratory, 104
 Physical Chemistry, Laboratory of, 80
- PHYSICAL EDUCATION, DEPARTMENT OF, 45, 152-54; Courses, 152; at Teachers College, 152; Equipment, 153; Athletic Field, 153; Gould Boat-house, 153; Gymnasium, 153; Thompson Memorial Building, 153, 366; Teaching staff, 152
- PHYSICAL EDUCATION, DIVISION OF, 45
 Physics laboratories at Barnard College, 157
- PHYSICAL SCIENCE, DIVISION OF MATHEMATICAL AND, 45
 Physical Training, Teachers College, 152
- PHYSICS, DEPARTMENT OF, 45, 154-57; Courses, 154-56; at Barnard College, 155; at Teachers College, 156; Extension, 156; Summer Session, 156; Journal Club, 155. Equipment, 156-57. Teaching staff, 154
- Physics, Entrance requirements in, 184
 Physics, Experimental, 154
 Physics laboratories of Teachers College, 157
 Physiography (Geography), 109, 110; Entrance requirements in, 184
 Physiological Chemistry, Courses in, 69-70, 79, 124; Laboratory of, 71
- PSYCHOLOGY, DEPARTMENT OF, 45, 157-59; Courses, 157-58; Summer Session, 158; Equipment, 158; Instruction, 238-39; Journal Club, 158; Library, 158; Research, 157, 158; Teaching staff, 157

- Physiology, Entrance Requirements in, 184
 Pierrepont Scholarships, 454; Award, 466
 Plimpton, George A., Library, 131
 Point, Definition of a, 47n, 194
 Political Economy, Courses in, 92
 Political Philosophy, Courses in, 120, 122
 Political Science, Beer Lectures in, 128
 Political Science, Faculty of, 43, 45, 278-79
 Politics, Blumenthal Lectures in, 128; Lecturers, 470
 Politics, Courses in, 126, 279
 Pond Scholarship, 454
 PRACTICAL ARTS, FACULTY OF, 45. *See* SCHOOL OF, AND TEACHERS COLLEGE
 Practical Arts Scholarships, Awards, 466
 Practical Optics, Course in, 412
 PRACTICE OF MEDICINE, DEPARTMENT OF, 159-62; Courses, 159-61; Teaching staff, 159
 Preparatory courses, 412
 Presbyterian Hospital, 54, 161; Alliance with, 231-32; Clinical clerkships at, 160, 168, 233, 235
 PRESIDENT, THE, 1, 2, 3, 4, 5, 9, 42, 193, 216, 230, 247, 278, 280, 321, 332, 339, 359, 396, 439, 441, 443, 448
 President's University Scholarships, 446; Awards, 458-59
 Preventive Medicine, Provisional course in, 124
 PRIVATE LAW, DIVISION OF (FACULTY OF LAW, *q. v.*), 45, 125-26; Courses in, 125-26; Summer session, 126; Library facilities, 128; Teaching staff, 125
 Prizes, 47, 447-52, 455, 479-82, 485
 Prizes:
 Alumni Association (Colleges of P. and S.), 448
 Alumni Association (Columbia College), 448; Awards, 461
 Barnard College, Awards, 464
 Bennett, 448-49
 Cartwright, 449
 Chanler Historical, 449
 College of Pharmacy, 467
 College of Physicians and Surgeons, 448, 451
 Colonial Dames, 455; Award, 467
 Columbia College, 447-52; Awards, 461
 Convers, 449; Award, 462
 Darling, 449; Award, 462
 Earle, in Classics, 449-50; Award, 460
 Einstein, 450; Award, 460
 Elsberg, 450; Award, 461
 Faculty Graduate (Pharmacy), 467
 General Theological Seminary, 450
 Hermann Botanical, Award, 464
 Kohn Mathematical, Award, 464
 Loubat, 450-51; Awards, 460
 New Jersey Alumni Association, Awards, 460
 Ordranax, in Law, 451
 Philolexian, Awards, 460
 Rolkner, Charles M., Jr., 451; Award, 461
 School of Law, 449, 451; Awards, 461-62
 Schools of Mines, Engineering, and Chemistry, 449; Award, 462
 Seminary English, 450
 Seminary Greek, 450
 Smith, Joseph Mather, 451
 Speranza in Italian, Award, 464
 Squires, Grant, 451
 Stevens triennial, 451
 Stokes, 452
 Toppan, 452; Award, 460
 United Daughters of the Confederacy, 455; Award, 467
 Van Amringe Mathematical, 452; Award, 461
 Van Buren, John Dash, Jr., in Mathematics, 452; Award, 461
 Probation for Freshmen, 341
 Professional Courses of Study, Summary of, 252-62
 Professional Schools, Higher Degrees, 186-92
 Professors, 9-22; Clinical, 23
 Professors, Exchange, 468-69
 Program of Studies:
 Barnard College, 342-43
 Columbia College, 194
 School of Architecture, 324-26
 School of Law, 219
 School of Music, 327
 Proseminars, *see* Departments
 Prospect Heights School, 413
 Proudfit Fellowship in Letters, 440; Awards, 457
 Proudfit Fellowship in Medicine, 440; Awards, 462
 Psychiatry, Assistants in, 33
 Psychological Laboratory, 151, 152
 PSYCHOLOGY, DEPARTMENT OF PHILOSOPHY AND, 45, 150-51; Courses, 150-51
 Psychology, Educational, Courses in, 97
 PUBLIC LAW AND COMPARATIVE JURISPRUDENCE, DEPARTMENT OF, 45, 126-28; Courses, 127-28; Equipment, 128; Comparative, Jurisprudence, 127; International Law, 127; Public Law, 127, 281; Roman Law, 128; Summer Session, 127-28; Library facilities, 128; Public lectures, 128; Teaching staff, 126-27
 Public worship, 57-58
 Pulitzer, Joseph, founded School of Journalism, 44
 Pulitzer, Lucile, Scholarships, 452; Awards, 463
 Pulitzer, Scholarships, 446
 Pure Science, Faculty of, 43-44, 280-81
 Qualitative Laboratory, 79
 Quantitative Laboratory, 79
 Queen Wilhelmina Lecturer, 469
 Question papers, 179
 Quizzes, 252
 Rabbinical Hebrew, Courses in, 143
 Readers' cards, 56
Reader's Manual, 56
 Reading Rooms, 55, 130
 Reform Club Library, 55, 128
 Regents' examination, 396
 Regents' Medical-Student Certificate, 235
 Register of Students:
 Barnard College, 345-58
 College of Pharmacy, 399-408
 College of Physicians and Surgeons, 240-46
 Columbia College, 199-215

- Register of Students—*Continued*
- Faculties of Political Science, Philosophy and Pure Science, 282-320
- Faculty of Fine Arts, 328-31
- School of Architecture, 328-31
- School of Music, 331
- School of Law, 220-29
- Schools of Mines, Engineering, and Chemistry, 263-76
- Teachers College, 364-95
- Registrars, Offices of, 46
- Registration, 46-47; Summer Session of 1913, 410
- Registration-book, Students', 188-89
- Regulations, Fellowships, Scholarships, etc., 435
- Regulations, General, 46-59
- Regulations, Higher Degrees, 186-92
- Relations with other Institutions, 52-54
- RELIGION, DEPARTMENT OF, 162; Courses, 162
- Religion and Learning Scholarships, 446
- Religious Work, 57-58
- Reports, Annual, of President and Treasurer, 478
- Reports, Grades, Credit, and, 196-98
- Requirements, Entrance, 173-85; Definitions of, in alphabetical order, 179-85. *See also* Admission
- Research. *See* this sub-heading under Departments
- Research Scholars, 453; Awards, 465
- Residence, College, 194, 341
- Residence Halls, 56-57
- Residence, University, for Degrees, 186, 192
- Rhetoric and English Composition, Courses in, 108
- Robb, Isabel Hampton, Scholarship, 455; Award, 466
- Robert Center Fund for Instruction in Music, 326
- Rockefeller Institute of Medical Research, 54
- Rolker, Charles M., Jr., Prize, 451; Award, 461
- Roman Law, Courses in, 128
- Romance Club, 167
- ROMANCE LANGUAGES AND LITERATURES, DEPARTMENT OF, 45, 162-67; Courses in French, 162-64; Extension, 166; Summer Session, 165; Italian, 164; Extension, 166; Summer Session, 165; Romance Philology, 164; Summer Session, 166; Spanish, 164, Extension, 166; Summer Session, 165-66; Coöperation with the Alliance Française, 167; Equipment, 167; French Societies, 167; Library, 167; Romance Club, 167; Spoken languages, 166; Teaching staff, 162
- Romance Philology, Courses in, 164
- Roosevelt Hospital, 158, 168, 233
- Roosevelt Professorship, *see* Theodore Roosevelt Professorship
- Rules governing students, Schools of Mines, Engineering, and Chemistry, 249-51
- Runyan Scholarship, 454; Award, 466
- St. Joseph's Theological Seminary, 54
- St. Luke's Hospital, Clinics at, 233
- Clinical Clerkships at, 160, 168, 235; Pathological laboratory of, 161
- St. Mary's Free Hospital for Children, 233
- St. Paul's Chapel, 57-58
- Sanitary Chemistry, Course in, 70
- Sanitary Engineering, Courses in, 81, 82, 247, 257-58
- Sanskrit, Courses in, 142
- Scandinavian collection in Library, 116
- Scandinavian, Courses in, 115
- Scarlet Fever Hospital, 90, 233
- Schermerhorn Hall, 74, 152, 158
- Schermerhorn Scholarships, 446
- Schiff Fellowship, 440-41; Awards, 457
- Schiff Loan Fund, 447
- Schiff Scholarship, 443
- Schilling collection, 131
- Scholarships, 435, 442-47, 452-53, 454-55; Awards, 458-59, 460-62, 463, 465-66
- Aldrich, 442
- Alonzo Clark, 444
- Alumni Association, 442; Awards, 459
- Alumni Competitive, 442; Awards, 460
- Annual, 442
- Barnard, Anna E., 453
- Barnard College, 452-53; Awards, 463
- Beck (College), 442-43
- Beck prize, 443; Awards, 461-62
- Benefactors, 443
- Blumenthal, George Jr., 443
- Brearley School, 453
- Brooklyn (Barnard College), 452; Awards, 463
- Brooklyn (Columbia College), 443; Awards, 461
- Burgess, 443
- Butler, Richard, 444; Awards, 459
- Campbell, 444
- Chinese, Awards, 459
- Chisholm Memorial, 453
- Clark, 444
- Clarkson, Jennie, B., 453
- Class of '85, 444
- Class of 1848, 444
- Coe, 453
- College of Physicians and Surgeons, 443-47
- Columbia College, 435-47
- Competitive (Barnard College), 452-53; Award, 463
- Competitive (Columbia College), 442
- Curtis University, 445; Awards, 459
- Cutting, 443
- Devendorf, 444-45; Awards, 459
- Faculty, 445
- Fiske, Martha T., 453; Award, 463
- General, 462-63
- Graduate (Teachers), 454; Awards, 465
- Graham School, 453
- Harper, 445; Awards, 461
- Harsen, 445
- Hertzog, Emma, 453
- Hewitt, 445; Awards, 480
- Jones, John D., 445; Awards, 459
- Kaufmann, Jessie, 452; Award, 463
- Kinnicut, 453; Award, 463
- Low, A. A., 443
- McClymonds, Louis K., 445; Award 461

Scholarships—Continued

- McLean, 453
 Marcus Daly, in Mining Engineering, 444; Award, 462
 Moffat, 446
 Moir, William, 453; Awards, 463
 Morgan, 443
 Non-competitive (Barnard College), 453
 Parish, 443
 Pope, 453
 Practical Arts, Awards, 466
 President's University, 446; Awards, 458-59
 Pulitzer, 446
 Pulitzer, Lucile, 452; Awards, 463
 Research (Teachers), 454; Awards, 465
 Scandinavian, Award, 459
 Schermerhorn, 446
 Schiff, 443
 School of Law, 443, 445; Awards, 461-62
 Schools of Mines, Engineering and Chemistry, 443, 444, 446; Awards, 462
 Sloan, 443
 Smith, Emily James, 453
 Society for Promoting Religion and Learning, 446
 Special, Award, 459
 Stuart, 446
 Student Scholarships (Barnard College), 452-53; Awards, 463
 Teachers College, 454-55; Awards, 465-6
 Tileston, 454; Award, 446
 Tillotson, 453; Award, 463
 Trustees' Competitive, 452; Award, 463
 University, 446; Awards, 458
 University for Women, 445; Awards, 459
 Vanderbilt, 443, 447
 Veltin School, 453
 Weed, Ella, 453

Scholarships, Annual Foundation of, 442
 Scholarships and Prizes in Columbia College, 442-52. *See* under Scholarships, and Prizes

School Nursing, Courses in, 141

SCHOOL OF ARCHITECTURE, 44, 321, 323-26

Admission, 173, 197, 322; Building and Equipment, 323-24; Courses: for Certificate in Architecture, 324; for degree of Bachelor of Architecture, 324; Combined course, 324; Electives, 325; Examination subjects, 177, 184; Faculty, 321; Fees, 47, 48; General Statement, 323; Higher degrees, 325-26; Options, 197; Program of studies, 324-25; Register of students, 328-31; Fellowships, 437, 439, 445; Awards, 457, 462-63

SCHOOL OF CHEMISTRY, 247

SCHOOL OF EDUCATION, 95, 360-61, 362, 367

See TEACHERS COLLEGE.

SCHOOL OF ENGINEERING, 247

SCHOOL OF FINE ARTS, 321-31; Admission, 173, 322. *See* FACULTY OF FINE ARTS

SCHOOL OF HOUSEHOLD ARTS, 124, 141

SCHOOL OF INDUSTRIAL ARTS, 124-25, Courses, 124-25, 167

SCHOOL OF JOURNALISM, 44, 45, 332-38
 Administrative Board of, 7; Admission, 173, 332-33, 335; Advisory Board, 332; Aims, 332; Building and Equipment, 332; Courses, 334-35; Entrance requirements, 177, 181; Fees, 48; Foreign language test, 333; Library, 55; Options, 197; Program of study for degree, 333-34; Register of students, 336-38; Registration, 46; Scholarships and Prizes, 333; Stenography and Typewriting, 335; Women, 335, 344

SCHOOL OF LAW, 44, 216-29

Admission, 173, 197, 216; Course of studies, 44, 125-28, 219; Degree of Bachelor of Laws, 218; Examinations, 217-18; Faculty, 216; Delegates to University Council, 4; Fees, 47; Law Library, 218; Options, 196; Program of studies, 219; Purposes of the School, 216; Register of Students, 220-29; Requirements for admission, 216; Scholarships and Prizes, 443, 445, 449, 451; Awards, 461-62; Special courses, 219; Teaching staff, 216

SCHOOL OF MEDICINE. *See* COLLEGE OF PHYSICIANS AND SURGEONS, 230-46

SCHOOL OF MINES, 44, 136-39, 247. *See*

SCHOOLS OF MINES, ENGINEERING, AND CHEMISTRY, AND MINING, DEPARTMENT OF

SCHOOL OF MUSIC, 44, 139-40, 326-27
 Admission, 173, 197, 322, 327; Candidates for degrees, 327; Courses of study, 139-40, 327; Entrance requirements, 184; Equipment, 139-140, 326; Examination subjects, 177; Fees, 47; General statement, 326; Options, 197; Register of Students, 331; Teaching staff, 139, 321

School of Philanthropy, 95

SCHOOL OF POLITICAL SCIENCE. *See*

FACULTY OF POLITICAL SCIENCE

SCHOOL OF PRACTICAL ARTS, 124, 167, 361-63

Admission, 174, 362; Courses in, 124, 362-63; Degrees and Certificates, 363; Examination Subjects, 177-78, 180, 182; Program of Studies, 362-63; Register of Students, 389-94

Schools and Faculties, 37-39

SCHOOLS OF ENGINEERING AND CHEMISTRY, 44, 244. *See* SCHOOLS OF MINES, ENGINEERING, AND CHEMISTRY

SCHOOLS OF MINES, ENGINEERING, AND CHEMISTRY, 44, 137-39, 247-77, 411; Admission, 173, 176, 196, 248, 249; Advanced Standing, 248-49; Courses, 38, 247, 249, 252-61; leading to degrees of Chemical Engineer, 260-61; Chemist, 261-62; Civil Engineer, 256-57; Electrical Engineer, 258; Engineer of Mines, 253-54; Mechanical Engineer, 259-60; Metallurgical Engineer, 254-56; Sanitary Engineer, 257-58; Curriculum, 249, 252; Equipment and Collections, 252; Examination subjects, 176, 184;

SCHOOLS OF MINES, ENGINEERING AND CHEMISTRY—*Continued*

- Examinations, 250-51; Faculty, 247; Fees, 47, 48, 50, 51, 250, 251; Fellowships and Scholarships, 249-51; Laboratories, 138; Memoirs, 251; Options, 196; Prizes, 449; Probation, 251-52; Register of Students, 263-76; Rules governing Students, 249-51; Sanitary Engineering, 257-58; Scholarships and Prizes, 443-44, 446, 449; Standing Committee on Instruction, 247; Summer work, 248, 252, 255-61
- Schurz, Carl, Fellowship, 441; Awards, 458
- Science of Language, Courses in, 141
- Secondary Education, Courses in, 97-99
- Secretary, Courses for position of, 412
- Secretary for Women Graduate Students, 6
- Secretary of Earl Hall, 6, 58
- Seidl, Anton, Library, 140, 326
- Seminars, 60; Biochemical, 70; Botany, 72; Chinese, 141; Classical, 87, 106, 107; German, 114-15, 116; Education, 96-99; English, 164; Ethnology, 64; French, 164; Highway Engineering, 82; History and Political Philosophy, 122, 123, 146; Indo-Iranian, 142; Law, 127, 128; Philosophy of Education, 96; Political Economy, 92; Psychology, 148, 151; Public Law, 127-28; Romance Philology, 164; Sociology, 94, 95; Zoölogy 166-67
- SEMITIC LANGUAGES, DEPARTMENT OF, 45, 143-45; Courses in Arabic, 144; Assyrian, 143-44; Biblical Hebrew, 143; Egyptian, 145; Epigraphy, 143; Ethiopic, 144; Oriental History, 144; Rabbinical Hebrew, 143; Semitic Seminar, 144; Syriac, 144; at Union Theological Seminary, 143; Teaching staff, 143
- Semitic Seminar, Courses in, 144
- Shackelford Scholarship, 454; Award, 466
- Shoemaker Loan Fund, 447
- Shopwork, Courses in, 167. Teaching staff, 167
- Shopwork, Entrance Requirements in, 184
- Sloan Scholarship, 443
- SLOANE HOSPITAL FOR WOMEN, 54, 233, 235; Managers, 7
- Smith, Charles Stewart, Scholarship Fund, 453
- Smith, D. E., Mathematical Collection of, 131
- Smith, Emily James, Scholarship, 453
- Smith, George W., Scholarship Fund, 453
- Smith, Joseph Mather, Prize, 451; Award, 482
- SOCIAL ECONOMY, DEPARTMENT OF, 45; Courses, 91-95
- Social Science, *see* ECONOMICAL AND SOCIAL SCIENCE, DEPARTMENT OF
- Société Française de Barnard College, 167
- Société Française de l'Université Columbia, 167
- Society for Promoting Religion and Learning Scholarships, 446; Prizes, 450
- Society of Beaux-Arts Architects, 324
- Society of Colonial Dames, Prize, 455, 467
- Society of Columbia University Architects, Medal, 448; Award, 463
- Society of the Daughters of the Cincinnati Scholarships, 455
- SOCIOLOGY AND STATISTICS, DEPARTMENT OF, 45; Courses, 93-94
- South Norwalk High School, 413
- Spanish, Courses in, 164, 165-66
- Spanish, Entrance Requirements, in 184
- Special Courses, Columbia College, 193; Schools of Mines, Engineering, and Chemistry, 249
- Special Diploma in Education, 424-25
- Special examinations, 50, 250, 251
- Special fees and deposits, 50-51
- Special fellowships, 436-42
- Special Funds for Needy and Deserving Students, Barnard College, 453
- Special Libraries, 54-55
- Special Officers of Instruction, 29-32
- Special Students: Barnard College, 341-42, 356-57
- Special Students in Medicine, 236
- Special study-rooms, 55
- Speyer School, 37, 360, 361
- Squires, Grant, Prize, 451
- Stamford High School, 413
- Standing Committee of Trustees, 1
- Standing of Students, 198, 217; Advanced, 173, 193, 216-17, 235-36, 250, 322, 341; High, 194; Probational, 198; Required of Honor men, 195
- State Charities Aid Association, 95
- State Educational Department, 173, 175, 362, 396
- State Examination Board, Examinations, 173, 175
- Statistical Laboratory, 95
- STATISTICS, DEPARTMENT OF SOCIOLOGY AND, 45; Courses, 91-95
- Stevens' Triennial Prize, 451
- Stewart, Iola, Scholarship, 454-55
- Stokes Prize, 452
- Struve Library, 67
- Stuart Scholarships, 446
- Student Organizations, 58-59; Comptroller of, 58-59; University Committee on, 8, 58
- Student Publications, 476-78
- Student Representatives, Board of, 59
- Student Scholarships, Barnard College, 452-53; Awards, 463
- Students, Committee on Employment for, 52
- Students, Employment for, 51-52
- Students, Free medical advice for, 58
- Students, Personal Relations of, 198
- Students, Expenses of, 51
- Students, Status of, 46-47
- Study-rooms, Special, 55
- Subjects, Examination, 176-78
- Subjects for Higher Degrees, 187-89
- Subjects of Study, *see* Courses of Study
- Submission of Note-books, Drawings, etc., 179
- Summer Courses, *see* under Departmental Statements
- SUMMER SESSION, 37-39, 45, 409-10
- Administrative Board, 7; Announcements, 45; Courses, 409; Fees, 49, 51, 409; General Statement, 409; Officers of Instruction, 37-39; Regis-

SUMMER SESSION—*Continued*
 tration, Session of 1913, 409–410;
 Representative in University Council,
 4

Summer Session Courses, 409; *see also*
 Courses, and under the various De-
 partments

Summer Session in Medicine, 237

Surgery, Assistants in, 32

SURGERY DEPARTMENT OF, 167–69;
 Courses, 168–69, 238–39; Hospital
 clinics, 168; Teaching staff, 167–68

Surgery, Orthopedic, Assistants in, 32

Surveying, Fees for Summer courses in,
 50; Summer courses, 82

Swift Physiological Cabinet, 158

Swimming pool, 153

Syriac, Courses in, 144

TEACHERS COLLEGE, 2, 4, 5–6, 44, 45, 46,

84, 152, 359–95

Admission, 173; Buildings and Equip-

ment, 359–60; Candidates for Bachel-

or's Degree and Diploma, 360, 371–

84; for Doctor's Degree and Diploma,

361, 364–65; for Master's Degree and

Diploma, 361, 366–71; Courses, 44,

84, 86, 109, 139, 152, 360–61; De-

grees conferred, 420–25; Faculties,

359; Delegates to University Council,

4; Dormitory, 57; Educational Mu-

seum, 360; Fees, 47, 50; Fellow-

ships, 453; General Statement, 359–

60; Graduate Students, 363, 364–

71; High School, 36; Horace Mann

School, 36; Elementary School,

36–37; Kindergarten, 37; Speyer

School, 37; Officers of Adminis-

tration, 5–6, 350; Junior Officers,

34–35; Physical Education, Courses,

152; Physics, Courses, 156; Labora-

tories, 157; Library, 55, 359–60;

Physiology, 159; Prizes, 455; Publi-

cations, 479; Register of Students,

364–95; Registrar's Office, 46; Scholar-

ships, 454–55, 464–66; School of

Education, 360; School of Practical

Arts, 167, 361–63; Special fees, 50;

Summer Session of 1913, 37–39;

Trustees, 2; Zoology, 170

Teachers College Schools, *see* TEACHERS
 COLLEGE, 361

Teaching Staff, Members of Faculties
 and, 9–39

Technical Certificate in Practical Arts,
 363

Technical Courses, Evening, 124

Technical Education, Courses in, 101,
 124, 167

Textiles and Clothing, Courses in, 124

Textiles and Sewing, Entrance Examina-
 tions in, 182

Theodore Roosevelt Professorship, 52–53;
 Incumbents, 468

Theological Seminaries, 54

Therapeutics, Applied, Assistants in, 33

THERAPEUTICS, DEPARTMENT OF, 169;
 Courses, 169; Journal Club, 169–70;
 Teaching staff, 169

Thesis in Electrical Engineering, 102

Thomas Library, 55, 128

Thompson, Frederick Ferris, Memorial
 Building, 153, 360

Tileston Scholarship, 454; Award, 466

Toppan Prize, 452

Townsend Library, 54

Toxicological Chemistry, Courses in, 70

Treasurer, 1, 38

TRUSTEES, 1, 42; Clerk, 1; Standing
 Committees, 1; Committee on, Build-
 ings and Grounds, 1; Education,
 1; Honors, 1; Finance, 1; The Library,
 1; Treasurer, 1

Trustees' Competitive Scholarship (Bar-
 nard College), 452; Award, 463

Tuition, 47–50

Turkish, Courses in, 142

Tyndall Fellowships, 456; Awards, 441–42

Undergraduate Admissions, Committee
 on, 173, 179, 362

Undergraduate courses in English in
 Teachers College, 106–7

Undergraduate entrance requirements,
 173–85; *see* Entrance requirements

Undergraduate Scholarship (Teachers),
 Award, 466

UNION THEOLOGICAL SEMINARY, 4, 53,
 162; Courses in Church History, 120–
 22; Ethics, 149; Hebrew at, 143;
 Philosophy of Religion, 149; Psy-
 chology of Religion, 150; Representa-
 tive in University Council, 4; Op-
 tions in, 196

United Daughters of the Confederacy
 Prize, 455; Award, 467

University Biological Lectures, 171

University Chorus, 140, 326

University Committee on Student Or-
 ganizations, 8, 58, 59; on Under-
 graduate Admissions, 173; Barnard
 members, 339

University Commons, 56

University Council, 4; Executive Com-
 mittee, 186; Fellowships awarded
 by the, 435; Function of the, 42

Scholarships awarded by, 446

University Dormitories, 56–57

University Fellowships, 442; Awards, 456

University Hall, 56

University of Paris, 49, 468

University of Vienna, 468

University Orchestra, 140, 326

University Physicians, 58

University Press Book-store, 56

University Publications, 476–80

University Scholarships, 446–47; Awards,

458; For women, 445; Awards, 459

University Settlement, 95

Van Amringe Mathematical Prize, 452;
 Award, 461

Van Buren, John Dash, Jr., Prize in
 Mathematics, 452; Award, 461

Vanderbilt Clinic, 54, 88, 90, 158, 161,
 232–33, 236; Clinical Assistants at,
 32–33; Managers, 7

Vanderbilt Scholarships (College), 443,
 447

Veltin School Scholarship, 453

Visiting Austrian Professor, 469

Visiting French Professorship, 53; In-
 cumbents, 469

Visiting Professor, University of Paris, 468

Visiting Professor, University of Vienna,
 468

- Whittier Hall, 57, 360
 Wiener Collection, 131
 Wilde Observatory, 67
 Willard collection of architectural casts
 and models, 323
 Willard Parker Hospital, 90, 233
 William L. Dickinson High School,
 Jersey City, 413
 Williams, Charlotte Louisa, Scholarship,
 454; Award, 466
 Withdrawal, 47
 Woman's Hospital, Clinics at, 233
 Women, Barnard College, an under-
 graduate college for, 43; Courses
 closed to, 43, 75
 Women, Courses in Physiology open to,
 157
 Women, Courses open to, 43, 60, 96, 157,
 278, 335, 343-44, 409, 411-14
 Women, Graduate Students, Secretary, 6
 Women, Physical Education for, 152
 Women, Residence Halls, for, 57
 Women, Sloane Hospital for, *see* Sloane
 Wood-working, Courses in, 125
 Wood's Hole Laboratory, 54, 168
 Worship, Public, 57-58
 Young Men's Christian Association, 58
 Zoölogical Laboratories, 159, 171
 ZOOLOGY, DEPARTMENT OF, 45, 170-172;
 Courses, 170-171; Summer Session
 at Barnard College, 170; at Teachers
 College, 170; Journal Club, 171;
 Laboratories, Libraries, and Equip-
 ment, 171-172; Teaching staff, 170;
 University Biological Lectures, 171
 Zoölogy, Entrance requirements in, 184-
 85

